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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

OCTOBER 1, 1954



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the October 15 issue will close Friday, October 1.

Forms for the November 1 issue will close Friday, October 15.

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of HOWARDS of HEMET

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1954

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ROSE
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By Robert V. Lindquist

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Robert V. Lindquist



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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

KENNETH A. BRENT
Managing Editor

Editorial

RULES SPELLED OUT

At the San Francisco session of the conference on fair trade practice rules for nurserymen being set up under the authority of the federal trade commission, it was well pointed out by Commissioner Carreta that no new laws are to be enacted and no new statutes are to be enforced by the drafting and promulgation of such rules.

Already on the statute books, most of them for many years, are the federal trade commission act, the Clayton act, the Robinson-Patman act and other laws, under which a nurseryman, like any other businessman, can be indicted and prosecuted for fraud, restraint of trade, etc.

Many complaints of unfair practices within the industry and from the public arise, not from illegal purpose or criminal intent, but from negligence and carelessness. They are due to substandards of business intelligence as much as to low standards of ethics. Both are due to lack of education and understanding.

The experienced and long-established nurseryman realizes as well as any preacher that the Golden Rule is the best, and also the most profitable, business practice in the long run. His education and observation have taught him so.

For less experienced and less observant persons, rules are necessary to guide them away from infringement of laws that are generally observed by good businessmen as a matter of common practice.

For such persons, fair trade practice rules spell out the laws in kindergarten fashion, so to speak. From such rules the most inexperienced individuals in the trade may be aware when they are crossing the line from enthusiastic advertising to fraudulent misrepresentation.

From the recent court trials of individuals indicted for such frauds, it is evident that the plainest language is necessary. Their defense makes it clear—to give them the benefit of the doubt—that they did not know where their practices would lead them.

Back of every infringement, of

course, is the question of intent. So long as we cannot read minds, intent can only be ascertained by the methods employed and the results. These are the subject of fair trade practice rules. They will guide, or warn, the inexperienced and unenlightened. They should not interfere at all with the reputable nurserymen that form almost the entirety of our industry.

BLOW YOUR OWN

Pennants and banners welcome the members to many meetings of nurserymen's associations, but at few are there greetings and decorations in the form of the industry's own products. So it warrants comment—though it should be too usual to do so—when the meeting room and speakers' platform are decorated with tubs of plants and vases of flowers as notably as at the San Diego convention of the California Association of Nurserymen.

True, there was a banner over the hotel entrance—there was a small wooden billboard in the lawn for the succeeding grocers' convention—but probably that was the hotel's contribution.

The day is past when the cobbler can take pride that his children are the poorest shod. Today they are the best shod, as a matter of modern advertising. So the florist is strengthened in the belief that a flower belongs in his lapel. And the nurseryman has as good reason as any producer or merchant to be proud of his merchandise. Maybe he need not wear a sprig of foliage when flowers are out of season, but he can always let it be known by a fitting display that nurserymen are meeting together.

VOLUME PER EMPLOYEE

What should be the annual volume of business done in relation to the number of permanent employees of a nursery has been a matter for discussion in recent years. Information was gathered last year by an A. A. N. committee which throws considerable light on the subject, even though the purpose of the committee's work was to arrive at a basis for checking members' dues calculations, rather than economic research.

In examining census figures, state nursery industry studies, A. A. N. group insurance plan data and a

special study among representative firms in the association, the committee found a considerable variation in figures, but reported that all seemed to cluster around the figures of \$8,000 to \$10,000 annual volume per permanent employee.

Considerable variation occurs between different types of nursery operations and between geographical sections of the country. Other factors influence the figure, but the rough approximation reached is close enough to be helpful.

PUSH-BUTTON FARMING

The housewife with a kitchen full of electrical appliances is not the only beneficiary of new developments of the push-button type. The farmer who has an up-to-the-minute model tractor can switch from one piece of equipment to another in a matter of seconds with an automatic pickup. The tractor may have no clutch, but the same type of automatic transmission as the family automobile. Similarly he may have power steering on his new tractor.

Recent progress permits the farmer to do such chores as sawing, pumping and spraying by means of electricity generated by his tractor, in place of the old-style power take-off.

Some automatic clutches disengage farm equipment when it strikes an obstruction. Other devices add not only to the utility of up-to-date equipment, but the degree in which it saves time and labor.

The push-button type of farming is being extended to others in this field besides the large growers of nursery crops. Changes are taking place in smaller equipment, so that the owner of a small nursery or even the home gardener with an acre or two is benefited. The power which runs one device can be used for the operation of several others as they are needed from time to time.

Besides making it possible for home gardeners to tend larger areas than they otherwise could maintain by their own efforts, these new mechanical devices make it possible for nurserymen to meet the production problem which has arisen with the steady advance in the cost of labor. Since that item constitutes at least half of the cost of production of nursery stock, equipment which makes a real saving in that direction is sure of a ready welcome in this field.



Officers and directors of the California Association of Nurserymen assembled on the steps of the Hotel del Coronado, Coronado, Calif., during the recent convention. Bottom row, from left, Garney Gee, Panorama City; David S. Stump, incoming president, Ontario; James H. Wilson, retiring president, Millbrae; James Eggers, Mill Valley; Henry Ishida, Gardena; Al Boulton, Woodland Hills; Syd Whitehorn, controller, Fresno, and Lynne Seright, Inglewood. Second row, from left, John Mason, Pomona; Dwight D. Dewing, Sacramento; Juel Christensen, Belmont; Paul Kleinsorge, San Diego, and Ed McNeill, Altadena. Third row, from left, John Edwards, Palo Alto; Herman Sandkuhle, Oakland; Jack Schneider, LaFayette; Albert Harutunian, San Diego; James Gibbs, Los Angeles, and Robert Weidner, Buena Park. Fourth row, from left, Jack McDonnell, Oakland; Jerrold Vistica, Yuba City, and Jack Evans, Los Angeles. Fifth row, from left, Burt Trick, Santa Maria; Bill Moffett, Gustine; Fred Fick, treasurer, Sacramento; Elmer Merz, executive secretary, Sacramento, and Andy Caglia, Fresno.

Committees Govern California Group

By Ed. Mc Neill

Emergence of state-wide committees as a vital force in conducting the affairs of the California Association of Nurserymen became evident at the 44th annual convention of this group, held at the Hotel del Coronado, Coronado, Calif., September 7 to 9. Approximately 400 registered nurserymen and guests took part in this convention. Through the 3-day conclave, reports of the various committee chairmen indicated clearly that in the future the major problems of the nursery

industry of California will probably be solved by small committees working between the annual meetings. During the past year, despite vast distances separating committee members, the groups functioned so efficiently that no question of prime significance was left to be resolved by the convention.

"This organization has come of age," noted Executive Secretary Elmer J. Merz, discussing this important trend at the conclusion of the convention. "From now on, with

the example set by the committeemen during the past year in mind, I feel that great things can be expected of this association."

At the conclusion of the final business session, the members elected David S. Stump president for the coming year. Assistant to the general manager of Armstrong Nurseries, Ontario, he was elevated from the vice-presidency by unanimous ballot.

Chosen to succeed Mr. Stump as vice-president was Donald C. Perry, owner of the Sunnyside Nursery,



Two groups of past presidents of the C. A. N., at the 1954 convention banquet. In the picture at left, seated left to right, Clyde Stocking, San Jose, 1944-45; John S. Armstrong, Ontario, 1915-16; George C. Roeding, Jr., Niles, 1932-33; Jack McDonnell, Oakland, 1942-43. Standing left to right, Jack W. Evans, Los Angeles, 1952-53; Herman Sandkuhle, Oakland, 1951-52, and Bert Kallman, Santa Barbara, 1943-44. Those in the picture at right, left to right, are Syd Whitehorn, Fresno, 1949-50; Tom Sand, McFarland, 1947-48; Gene Fowler, Newcastle, 1938-39, and Ray Hartman, San Jose, 1934-35.



James H. Wilson, third from right, retiring president of the California association, welcomes J. B. Baker, Jr., president of the American Association of Nurserymen, to the California convention. Looking on are, left to right, Clyde Stocking, A. A. N. director from region 6; Willis Stribling, secretary of the California chapter of the A. A. N., and Howard P. Quadland, A. A. N. public information director.



Leaders of the panel discussion on wholesalers' problems at the California convention. Left to right are Ray Hartman, San Jose, chairman; Virgil E. Cripe, McFarland, and F. C. Tomlinson, Whittier. Harry Rosedale, Monrovia, also a member of this group, was not present for the photograph.



Here are members of the southern California baseball team, which beat the northerners in the annual California association game. Kneeling, from left, are Jim Meadows, Jim Meadows Nursery Supplies, Altadena; Ed McNeill, Tuttle Bros. Nurseries, Altadena; Ollie Weeks, Weeks Wholesale Rose Grower, Ontario; Jim Gibbs, Winsel-Gibbs, Los Angeles, and Frank Antonicelli, Washington Street Nursery, San Diego. Standing, from left, are Edward Harrisburg, Germain's, Inc., San Diego; Albert Harutunian, San Diego Fertilizer Co., San Diego; Fred Otto, George F. Otto & Son, San Diego; Tex Carter, Matlin's Nursery, Ontario; Walt Matlin, Matlin's Nursery, Ontario; Al Pastor, A. Pastor Wholesale Nursery, Inglewood; unidentified player; Bill Otto, George Otto & Son, San Diego; James Perry, Perry's Plants, Montebello, and Paul Little, Pacific Guano Co., Los Angeles.

San Anselmo. Mr. Perry is a past president of the Redwood chapter and has been a member of the state board of directors. Away from his business, he finds time to enjoy hobbies of photography and fishing.

Re-elected for second terms as controller and treasurer were Syd Whitehorn, Sierra Nursery & Seed Co., Fresno, and Fred Fick, East Lawn Nursery, Sacramento, respectively. This year marks the 17th consecutive year Mr. Whitehorn has served on the board of directors.

In accordance with a change in the bylaws enacted at the 1953 convention, the sites for 1955 and 1956 conclaves were selected as the final act of the business sessions. Yosemite won the bid for 1955 through the efforts of Willis Stribling, Stribling's Nurseries, Merced, who represented the host group, the San Joaquin chapter. The following year will find the convention back at Hoberg's resort, in Lake county, site of the successful 1953 convention. Dwight D. Dewing, Capital Nursery Co., Sacramento, representing the Superior chapter, issued the invitation.

Committee and Board Meetings

Although the first general business meeting was not scheduled until Tuesday, September 7, many members arrived at Coronado on Sunday for final committee meetings.

Monday morning found the state board of directors holding a semi-annual meeting under the guidance of President James H. Wilson, Peters & Wilson Nursery, Millbrae. Membership Chairman David Stump opened the directors' meeting by reporting the total membership of 920, a gain of 89 new members during the past year. Breaking down the total membership into three classifications, he noted that the C. A. N. now has 652 regular or nursery members, 140 associate members and 128 affiliate members.

Treasurer Fred Fick announced that the C. A. N. has total assets of \$37,000.

In reporting the activities of the tax committee, Chairman Juell Christensen pointed out the extreme importance of tax matters to all nurserymen both now and in the future. A suit in progress involving rose fields of the Jackson & Perkins Co., Pleasanton, on which a large personal property tax was levied by the county, will be watched closely by the industry.

Juell Christensen made the following recommendations in regard to specific taxes: 1. Join a state-wide

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THEODORE PAYNE

Pioneer California seedsman, nurseryman and landscape architect, Theodore Payne was presented with this year's award for outstanding achievement in horticulture by the California Association of Nurserymen.

Mr. Payne was born at Church Brampton, Northamptonshire, England, June 19, 1872. He went to California in June, 1893, to take over the gardens of the famous Polish actress, Helena Modjeska, in Santiago canyon, near Santa Ana.

He later entered the employ of the Germain Seed & Plant Co., Los Angeles, specializing in flower and farm seeds, and became manager of this department in 1902. He left Germain's in 1903 to travel throughout Europe selling California seeds. Upon his return from Europe he opened his own seed business and bought a nursery from Hugh Evans. After several moves he settled in his present location, on Los Feliz boulevard, Los Angeles, in 1922.

Mr. Payne is the author of several books, including "Eucalyptus Timber Culture"; "California Wild Flowers, Their Culture and Care"; "The Hybrid Watsonias," and "California Native Plants, Trees, Shrubs and Perennials."

He is a life member and past president of the Southern California Academy of Sciences, a charter member of the Nature Club of Southern California and a councilor for the Rancho Santa Ana Botanic Garden, Claremont, Calif. He was married December 26, 1907, to the former Alice Noyes.

A. A. N. CHAPTER MEETING

The annual state chapter meeting of the American Association of Nurserymen was held in conjunction with the California association's convention, with members of this group convening for breakfast on Wednesday, September 8.

The California chapter elected James Wilson president for the coming year and chose John A. Armstrong, Jr., Armstrong Nurseries, Ontario, vice-president. Willis Stribling was re-elected secretary.

David Stump, Herman Sandkuhle, F. C. Tomlinson, Willis Stribling and Ray Hartman were elected delegates to the 1955 convention.

At San Francisco

Second Fair Trade Session

Further changes were suggested in the preliminary draft of fair trade practice rules for nurserymen at the second session of the industry conference authorized by the federal trade commission, held September 14 at the Fairmont hotel, San Francisco, Calif. The first hearing, at Chicago August 11, was reported in the September 1 issue of the American Nurseryman, in which a complete draft of the preliminary rules was published. The third session was set for September 28 at the Statler hotel, New York city.

After the three sessions have been held, the federal trade commissioners will review the rules and recommendations for their changes. Then a draft of proposed rules will be released and a public hearing set at Washington, D. C., for further criticisms and suggestions by interested or affected parties.

Nearly 40 nurserymen attended the hearing at San Francisco. Representing the amateur garden interests was only a local officer of the American Rose Society. The state department of agriculture was represented by Wray Hiltabrand, of the bureau of nursery service, whose comments were enlightening on the relationship of the state laws to the FTC rules. The latter, it was explained, would apply only to transactions in interstate commerce.

Albert A. Caretta, the federal trade commissioner in attendance, clarified some of the legal aspects involved and offered helpful com-

ments as to the formulation of rules. He explained that the proposed fair trade practice rules will not add to or alter in any degree the laws now affecting nurserymen as to their business methods. Such rules only spell out and make clearer the provisions of federal statutes that govern in such matters.

Only rules should be included, suggested Mr. Caretta, that apply to practices existent in the nursery field. If a rule, such as that referring to discriminatory prices for instance, does not relate to practices in the nursery field, it would better be excluded. If it is considered applicable and included, it should be illustrated by means of examples so that the intent is clear to the industry at large. The commissioner especially recommended the use of examples to clarify rule 8, on deceptive guarantees.

Commissioner Caretta divulged, in comments on rule 11, on misrepresenting origin or source of industry products, that the federal trade commission is considering the required marking of foreign products as to their origin when delivered to the public, but there is a question as to the commission's authority in this.

The commission, he also revealed, is studying the partial or entire elimination of group II rules from fair trade practice codes, as they are merely advisory and their nonobservance in itself is not a violation of law.

[Continued on page 68]



Newly elected officers of the California Association of Nurserymen for 1954-55. Left to right, Fred Fick, Sacramento, treasurer; Syd Whitehorn, Fresno, controller; David S. Stump, Ontario, president; Donald C. Perry, San Anselmo, vice-president, and Elmer Merz, Sacramento, executive secretary. Mr. Merz represented the association at the trade practice rules conference held at San Francisco.

Hold Shade Tree Meeting

By Noel Wysong

The 30th annual meeting of the National Shade Tree Conference, held August 30 to September 3 at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J., was a meeting that will be long remembered for its interesting and informative educational program. It also provided an opportunity for members to view the famous boardwalk and the beautiful sand beaches and to see the Atlantic ocean change from a pond-like calm to a raging fury with giant, white-capped waves from the effects of hurricane Carol.

Conference attendees included representatives of tree service companies, city park and forestry departments, educational institutions, research agencies, nurseries, landscape organizations and others interested in the propagation and care of ornamental shrubs and shade trees. Thirty-three of the 48 states, the District of Columbia, Canada and South America were represented. Total registration was 623 members and guests.

New Officers Elected

Officers for the coming year were elected at the business session as follows: President, Carl Fenner, assistant city forester, Lansing, Mich.; vice-president, Pierre A. Miller, University of California, Los Angeles, Calif.; secretary-treasurer, L. C. Chadwick, department of horticulture, Ohio State University, Columbus, O.; editor, Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, O. Elected to the executive committee for a term of two years were the following: Region II, D. S. Welch, department of plant pathology, Cornell University, Ithaca, N. Y.; region IV, T. W. Parke, Parke-Speed Tree Service, Columbus, O., and region VI, Keith L. Davey, Davey Tree Surgery Co., San Francisco, Calif. Terms of members of the executive committee from regions I, III, V and VII, namely, Gordon King, Hackett C. Wilson, Noel B. Wysong and William M. Grundy, respectively, carry over until August, 1955.

The 30th annual meeting of the National Shade Tree Conference was formally declared in session Tuesday morning by President Albert W. Meserve, Danbury, Conn.

The first formal paper on the edu-

cational program was presented by W. A. Mitcheltree, of the New Jersey agricultural extension service, New Brunswick, on the topic, "How Water Acts in the Soil." Using a back-lighted screen to illustrate soil composition, water absorption and percolation graphically, he said that work required by plants to draw water from the soil was similar to the effort needed to operate a pitcher pump; as the water table becomes lower, the plant must work harder to obtain the water needed, and, if it becomes too low, the plant would not be able to draw up sufficient water to sustain its life processes. Sand soil, Mr. Mitcheltree said, would hold about 50 tons of water per acre per foot of soil depth, while sand loam would retain about 100 tons and loam 200 tons. As the soil increases in clay content, he said, the amount of water it will hold decreases.

Atmospheric temperature and

other weather conditions affect the length of time soil normally retains moisture, he stated; in March a 2-inch rainfall will be retained about five weeks in the soil, while a 2-inch rainfall in July will be retained only about one week. He suggested that in irrigation practices such factors as time of year, depth of roots of the plants involved and the water-holding capacity of the soil should be considered to determine the proper amount of water to apply for the best results.

"One acre of trees," Mr. Mitcheltree said, "will use about the same amount of water in a given time as an acre of lettuce." Concerning the watering of trees, he said he generally favored surface application since it was more nearly like rainfall in its effects, but that in heavy soils subsurface irrigation was more economical and faster in results. During drought periods, subsurface irrigation is usually necessary because of the general need for conserving water, he said. After presentation of his paper, Mr. Mitcheltree was asked numerous questions.

A report on the National Shade [Continued on page 80]

National Arborist Association Meets

Problems pertinent to the business operations of tree service companies were discussed at the meeting of the National Arborist Association held August 30 at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J. Approximately 100 members were present. J. Gerald Corr, Trees, Inc., Houston, Tex., president of the association, presided.

At the business meeting, officers for the coming year were elected as follows: President, H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind.; first vice-president, Hackett C. Wilson, Wilson Tree Co., Shelby, N. C.; second vice-president, George W. Goodall, Goodall Tree Expert Co., Portland, Me.; secretary, Henry Vaughn-Eames, Vaughn-Eames Tree Service, Plainfield, N. J.; treasurer, Ray Gustin, Jr., Gustin Landscape & Tree Service, Rockville, Md. Elected to the board of directors was Freeman L. Parr, Parr & Hanson, Inc., Hicksville, N. Y. Holdovers on the board of directors are Roger F. Sohner, Sohner Tree Service, San Anselmo, Calif., and James T. Turner, Turner Tree Service, Atlanta, Ga. Paul E. Tilford, Wooster, O., was re-elected executive secretary.

A large portion of the program

was devoted to a report by Paul E. Tilford, executive secretary, entitled "Industry Statistics." Dr. Tilford's report was based on returns from a questionnaire mailed previously to members of the association and covered current wage rates, additional benefits, such as vacations with pay, profit sharing and hospitalization given employees, charges for work performed, availability and quality of labor and general work conditions in arboriculture. It was encouraging to note that, according to this report, business in general continues to be good.

Karl F. Amalia, of Amalia Tree Surgeons, Inc., Manchester, Mass., presented an interesting report on costs of spraying shade trees. For the greatest efficiency in operation, Mr. Amalia advocated the use of a 2-man crew per spray rig. He urged arborists to put their operations on an up-to-date business basis and said that this could be done only by keeping accurate cost records of all work performed, including depreciation of tools and equipment, overhead costs and all incidentals. He strongly advised employing the services of a competent cost accountant to help determine fair and equitable charges for work performed.

Interest High at Kansas Meeting

By John J. Pinney



Some new officers of the Kansas Association of Nurserymen. Left to right, John J. Pinney, director; L. C. Gatewood, president; Eugene Wilson, director; Joseph Brady, director; F. C. Schnitzler, immediate past president and director.

The annual convention of the Kansas Association of Nurserymen, held at Salina, September 7 and 8, attracted nurserymen from Oklahoma, Missouri and Iowa as well as from Kansas. A well planned program kept interest high throughout the session. Registration and the first sessions were held in the new storage building and office of the Kansas Landscape & Nursery Co. Visiting nurserymen enjoyed inspecting this modern plant.

L. C. Gatewood, Leavenworth, was elected president for the coming year; with Charles Nelson, McPherson, as vice-president, and Ray Keen, Manhattan, secretary - treasurer. Elected to the board of directors were Eugene Wilson, Kansas City; F. C. Schnitzler, Wichita; Joseph Brady, Wichita, and John J. Pinney, Ottawa.

Professor Keen Speaks

President F. C. Schnitzler opened the meeting by introducing Ralph Ricklefs, Sr., who was responsible for arranging most of the program. Following the invocation by Rev. Walter H. Moeller and an address of welcome by Mayor E. P. Wenger, Prof. Ray Keen, of Kansas State College, addressed the convention. Professor Keen, who studied at Ohio State the past year for his doctor's degree, spent considerable time visiting nurseries in the east and gathered many valuable ideas which he passed on to the nurserymen in his talk, entitled "If I Were a Kansas Nurseryman."

"I would keep records if I were a nurseryman," said Professor Keen. "I would record what I planted,

when, how and where, as well as the correct names. Then when I sprayed and fertilized I would record the time as well as the materials used and the amounts. If I propagated any stock, I would keep careful records of the methods used, so failures could be avoided and successes repeated. These records will become more valuable as the years go by, as guides for what to do as well as how and when."

Irrigation is becoming increasingly important in nursery practices, according to the speaker. In the east, a period of 10 days without rain is a drought, but in Kansas droughts take on greater proportions. Nurserymen who are able should be prepared to combat these droughts with irrigation.

Professor Keen stated that until recent years water was the limiting factor in the production of nursery stock, but now fertility is becoming more important. The original fertility of the soil has been largely depleted and must be replaced by the use of fertilizers. Unfortunately there has been little research on the use of commercial fertilizers as applied to nursery stock. Land that is able to produce 100 bushels of corn per acre should be good land for nursery stock production, he added.

The control of weeds in the nursery is of prime importance, said Professor Keen. There have been great advances in machinery for cultivation; sprays and mulches have been developed to control weeds. Some of the mulches, such as sawdust and ground corncobs, lock up the nitrogen, so this element must be added.

A rotation program keeps the soil

in the best conditions, the speaker continued. Terracing and planting on the contour conserve the soil moisture and fertility. Maintaining humus is one of the major problems in nurseries. It is best accomplished by planting sod crops and fertilizing them heavily. If this is done, it may not be necessary to fertilize the nursery stock.

In Kansas, the grass sods are the best. Sudan grass is better than soy beans. Brome grass sod maintained two years builds humus rapidly. If bluegrass sod is used, the top half inch can be skimmed off and sold for lawns without reducing the fertility of the soil.

Nurserymen should mechanize more, according to Professor Keen. Machinery has been developed for many of the jobs that formerly were done manually. Planting, cultivating, spraying, harvesting, balling and packaging can now be done by machinery.

Nurserymen need to pay more attention to merchandising. There is a tremendous potential market for nursery stock, but more and better advertising is needed, as well as a better job of selling, the speaker concluded.

Insects and Diseases

Dr. Herbert Knutson, state entomologist, gave a talk on insects and diseases important to nurserymen. Dr. Knutson pointed out that many plant diseases and destructive insects found in this country have not yet invaded Kansas, but nurserymen should learn to recognize them. Among these are the Japanese beetle,

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Officers of the North Carolina Association of Nurserymen show a decal of the association's new official emblem. This picture, made during the summer tour, shows, left to right, Glenn Gilmore, Jr., Julian, president; Eelco Tinga, Castle Hayne, secretary-treasurer, and Amos Fowler, Raleigh, vice-president.

North Carolina Tour

By Howell Stroup

The policy of the North Carolina Association of Nurserymen to provide its members with an annual tour of various sections of the state was continued this past summer with a tour of the southeastern portion. Some of the oldest nurseries in the United States are situated in this area. The association members who have participated in previous tours were enthusiastic about using the tour plan for bettering their knowledge of the industry through an exchange of ideas and discussion of problems on the scene. Many commented that practices learned from previous trips had already begun to bear fruit in their nurseries.

Fifty members, headed by Glenn Gilmore, Jr., North State Nursery, Julian, N. C., the association's president, met at Clarendon Gardens & Nursery, Pinchurst, N. C., where a bus was made available for the transportation of the party throughout the tour.

The meeting place, Clarendon Gardens & Nursery, composes about 15 acres and is managed by Ralph Shannon. It is only about seven years old but already ranks as a tourist attraction. Persons in great numbers come to view over 100 varieties of hollies as well as many flowering camellias, azaleas and other plants. The nursery also has test plots for other varieties of hollies, checking their hardiness and chances

for longevity in the North Carolina climate. A lake on the property is used not only to beautify the gardens but also to irrigate the nursery.

The party departed for Semmes Nursery, Fairmont, a branch of Semmes Nursery, Semmes, Ala. This is a wholesale nursery, managed by W. C. Taylor, consisting of about five acres. Container culture is practiced at the nursery, with over 150 varieties growing in cans ranging in size from one to three gallons. The nursery is used as a distributing point for plants from Alabama through the Carolinas.

The next stop was the Elmore Nursery, Bolivia, which contains about 10 acres, is 10 years old and features camellias and azaleas. Most plants are grown in a slat house, with the irrigation sprayers atop the house.

The lunch period found the group at the Orton plantation, Wilmington, famed as a mecca for tourists and noted for its beautiful camellias and azaleas.

The next point of call, the Airlie Gardens, about four miles from Wilmington, was established in 1735 as a show place. Here are more than a million azaleas and thousands of *Camellia japonica*.

This concluded the tour for the first day. The group proceeded to the Ocean Terrace hotel, at Wrightsville Beach, for a late afternoon swim

and other recreation. Dinner was served at a local sea food haven in the evening.

Second Day

The second day found the group up early and en route to the Ferger Landscape Co., Wilmington. Hosts at this nursery were the owners, James and Carl Ferger. This nursery is approximately five years old and features a variety of plants used in landscaping. The nursery has two distinct parts, one along the sound consisting of unshaded beds irrigated by water from the sound, the other a well-planned bedded area, designed before the land was cleared, with a well in the center for irrigation.

The Tinga Nursery, Castle Hayne, N. C., was next on the itinerary. This nursery is operated by E. T. Tinga, aided by his son Eelco, who is secretary-treasurer of the North Carolina association. This nursery consists of 10 acres and grows a large variety of ornamental plants. These are grown in the field with no shade but with heavy irrigation. A novel feature of the Tinga Nursery is its use of a small plant digger that is round like a can, has a handle and can be expanded to dig a 6-inch ball. It is shoved into the ground with the foot like a shovel.

Robbins Nursery, Burgaw, owned and operated by Tom and Dudley Robbins, was the next place visited. It consists of 14 acres, and the plants are grown in rows in the field without irrigation. In view of the summer droughts, it will be interesting to compare the results at this nursery with those at the nurseries which are using irrigation.

At Laurel Lake Nursery, Salemburg, J. S. Howard was the host. He switched from the fertilizer business to the nursery business about eight years ago. He has 10 acres of hollies, camellias and azaleas, all in beds, irrigated by a lake. This nursery was well planned prior to planting and utilizes pines for shade as well as a slat house. A number of plants are grown in the open. A bale of peat moss to 100 square feet of soil is used in the beds and pine needles are used for mulch, eliminating cultivation. A "camellia trail" offers patrons of the nursery ample opportunity to see the best plants while in bloom.

Mr. Howard's wife prepared one of the most delightful lunches of the entire tour; the meal was made up of country-grown vegetables, ham and chicken. This repast was enjoyed by all.

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School, Farm Act as Hosts for Canadian Nurserymen's Course

By L. C. Keith

That the seventh annual short course of the Canadian Association of Nurserymen was a decided success was the unanimous opinion of the 100 or more nurserymen who attended the 2-day sessions, August 30 and 31. The first day was spent at the Kemptville Agricultural school, Kemptville, Ont., and the second day at the Central Experimental Farm, Ottawa.

Holding the course in eastern Ontario enabled more nurserymen in that section of the country and in Quebec to attend the course and allowed those from western Ontario to see the excellent facilities offered by the Kemptville school and the research work being done at Ottawa.

Mr. Barr, principal of the Kemptville Agricultural school, welcomed the nurserymen at the opening session, and J. V. Stensson, president of the association, expressed the nurserymen's gratitude to the school officials. Elmer Banting, chairman of the short course, introduced Leslie Hancock, chairman of the panel discussion designated for growers and propagators.

Weed Control

A. A. Russell, department of lands and forests, began the program with an excellent paper on weed control by sprays. Weed control was limited to the conifers, and experiments were conducted on the control possibilities of cleaning solvents and mineral spirits. Experiments were set up to test Shellsol, Varsol and A.W.K. A 2½-gallon sprayer was used, and various rates of application, from 60 to 100 gallons per acre, were applied.

As the rate of application was increased, an additional number of weeds was destroyed — an increase counterbalanced by the increased cost of oil per acre and by damage to trees. Approximately 90 out of 100 of the common weeds were destroyed. The growth of others, such as shepherd's-purse, peppergrass, mare's-tail, mullein and ragweed, was held back, as they lost most of their leaves. It was discovered in the experiments that the percentage of aromatic oil in the spray material is the controlling factor in the weed killing. Weed killer A.W.K. No. 1 and Esso weed killer 350 have

a guaranteed oil content of 13 to 22 per cent, and cleaning fluids are usually within this range. Thus, since all controls were found equally satisfactory, cost was cited as the factor determining which control is best. It was estimated that weeding a given area by spray costs \$60, compared with \$210 for the same weeding by hand.

Spraying effects the destruction of weeds before they become objectionable in the beds. Weeds not actually destroyed by spray are held back, and weeding crews can go into action before the weeds become too large, flower and spread their seeds.

Mr. Russell stressed that the application of mineral spirits must be strictly controlled. Spraying on hot, humid days is likely to cause browning of pine needles and spot blanching of spruce. A slightly heavy application will blanch the tips of white cedar, but the color of cedar, pine and spruce will come back in a few weeks. Spraying before a heavy dew has lifted, or just after a rain, will brown needles and cause needle drop as a result of a concentration of spray material at the fascicles. There is no residue in the soil after spraying.

J. Herrod, Sheridan Nurseries, Ltd., Sheridan, Ont., also speaking on weed control, mentioned sterilization by Dowfume MC-2 as effective on seedbeds. He recommended leaving material on the beds 24 to 30

hours under plastic covers supported by hoops.

Leslie Hancock, Woodland Nurseries, Cooksville, Ont., and George Blythe, McConnell Nursery Co., Port Burwell, Ont., spoke on propagation from cuttings. From their remarks it would seem that there is great diversity in propagation methods and that a new era of propagation has begun.

Discussions on New Plants

New varieties for propagation were discussed by three speakers. Warren Oliver, Central Experimental Farm, declared that he is against the introduction of new varieties unless they fill a current need better than the old ones. With smaller homes and industrial buildings, there is a need for smaller trees and shrubs, he stated.

J. V. Stensson, of Sheridan Nurseries, Ltd., Sheridan, Ont., discussed new ornamental varieties with emphasis on smaller, compact-growing types. New varieties of trees recommended were *Acer platanoides columnare*, *Ginkgo biloba fastigiata* (male or female), *Malus Dorothea*, *Crataegus Toba* and *Tillia tomentosa*. Evergreens suggested were *Juniperus chinensis Blue Tower*, *Juniperus virginiana Skyrocket* and *Taxus cuspidata densa*. Shrubs mentioned were *Hydrangea macrophylla Rose Bouquet*, *Viburnum carlcephalum*, laurel cherry, *Prunus laurocerasus macrophylla*, *P. l. zabeliana*, *Ilex pedunculosa* and *Buxus suffruticosa Northland*.

Speaking on peonies, J. Taylor, Ontario Agricultural College, recommended for Canada *Therese*, *Festiva Maxima*, *Philippe Rivoire*, *Le Cygne*, *Walter Faxon*, *Mons. Jules*.

[Continued on page 56.]



Scene in Lecture Room During Canadian Short Course.



Razor Blade Device for Wounding Cuttings.



Erdprinz Potting Machine.

Pointers on Propagation

• Propagating Tools

By James S. Wells

In considering the work of plant propagation, it is easy to overlook the importance of the tools which are used in this work. They tend to be taken for granted, yet in many instances the success of propagating operations depends to some considerable extent upon the type of tool that is used and the way that it is used.

The Propagating Knife

There is no more important tool for the plant propagator than the knife that he must use for making cuttings, grafts, trimming, etc., and only the finest-quality steel is used in the best grade of knives. There is a diversity of patterns in propagating knives, and each has been designed over the years to perform some special function in plant propagation. Most propagators are familiar with the budding knife, which has a specially shaped blade and a small pointed but blunt-edged tongue to the handle which is used to lift the two sides of the T cut used in normal budding techniques. Special knives are also made with two blades which enable two parallel cuts to be made for patch budding, an excellent method of propagation for some varieties of fruit trees, particularly when large trees have to be worked over.

There are many varieties of knives used for grafting work, but all of them have this in common: Only one side of the blade is ground,

the other side being flat. In an ordinary knife, the blade is ground on both sides to a fine cutting edge. A grafting knife is ground only on one side so that the flat side remains to use as a guide when making a cut into either scion or understock. Grafting knives are ground for left and right-handed people, although left-handed knives are not common. They can be obtained and, in fact, are most essential for a left-handed grafter. Most grafting knives are designed with a fairly broad blade, but knives are available from Europe with a specially tapered and finely pointed blade which has been designed specifically for making the fine veneer graft used by European propagators for production of many conifers. This knife is a delight to handle, but it is of value only to the expert propagator.

The quality of steel which may be in any of these propagating knives is highly important, because it is essential that a keen cutting edge be maintained on these knives at all times. The best steel that I have yet seen comes from Germany, and an excellent brand of German knives is now available in the trade. This brand offers a wide variety of patterns, first-class steel and nicely designed handles which fit comfortably into the hand when working. I like these knives, and, from past experience, I know that most other propagators do also.

The sharpening of these knives, or any propagating knife, is a matter which often causes the worker some concern. He is right, of course, to demand that the knife be completely sharp, because more damage and more reduction of good stands can follow the use of a blunt knife which macerates rather than cuts the tissues of the propagating wood than might be expected. Good, clean cuts should be mandatory in all work in plant propagation.

To maintain such a keen cutting edge, good steel is the first requisite. It then has to be properly sharpened, and, for this, a high-grade stone is essential. A propagating knife should never be touched by a carborundum-type stone, no matter how fine. These are abrasive cutting stones which certainly grind off large quantities of metal, but are not to be recommended for maintaining a fine tool at a high degree of efficiency.

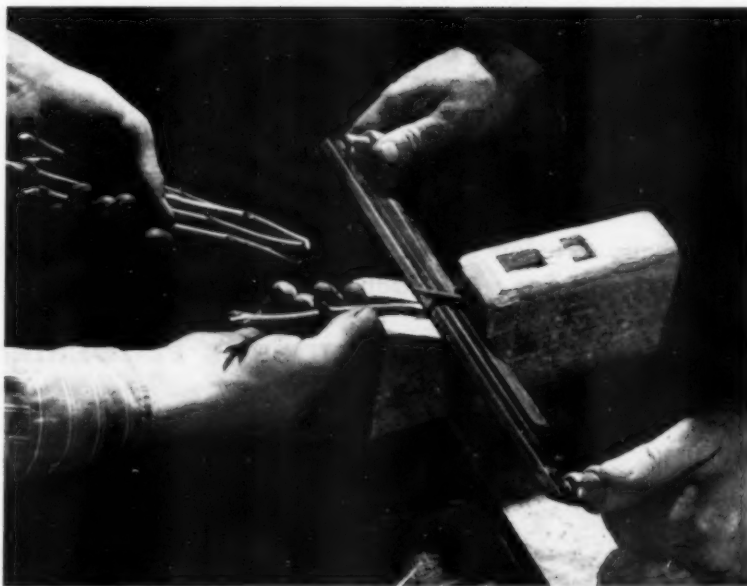
The manufacturer of the German knives also makes a special stone which is excellent for putting the final edge on a propagating knife, but initial grinding may require a somewhat coarser stone. For the initial grinding, I prefer a fine-grained, water-lubricated stone, which I use with the greatest of caution. In the grinding and sharpening of a grafting knife, it is essential to avoid a beveled edge on the cutting surface of the blade.

I mentioned earlier that the graft-

ing knife is ground so that the back side of the blade is flat. The whole purpose of this flat side is defeated if the actual cutting edge tapers in from both sides by improper grinding. Every effort should be made to maintain the flat back edge of the blade, unground and true, right to the final cutting edge, and any final grinding of the cutting edge should take place on the side of the blade which has been ground at an angle. Careful grinding in this way, followed by stropping on a good leather strop, should produce an edge on the budding or grafting knife which will enable the blade to be run up the forearm and trim off the hairs cleanly as would a razor. When the blade is in that condition, it is properly sharpened.

A Wounding Tool

Most propagators are now well aware of the value of wounding cuttings by drawing the tip of a well-sharpened knife down the stem of the cutting for a distance of about one and one-half inches at the base. This is particularly valuable on Pfizer junipers, many other conifers, magnolias, maples, etc., and the value of this operation has been discussed in relation to a number of different plants in these columns from time to time. The application of a heavy wound, using the tip of a well-sharpened knife blade, presents no problems and propagators can apply a wound of this kind rapidly and efficiently if the work is entrusted to a good knifeman with a good tool. However, when one comes to the application of a light wound, which calls for the drawing of the



Draw Blade Cutter Being Used to Cut Lilac Scions.

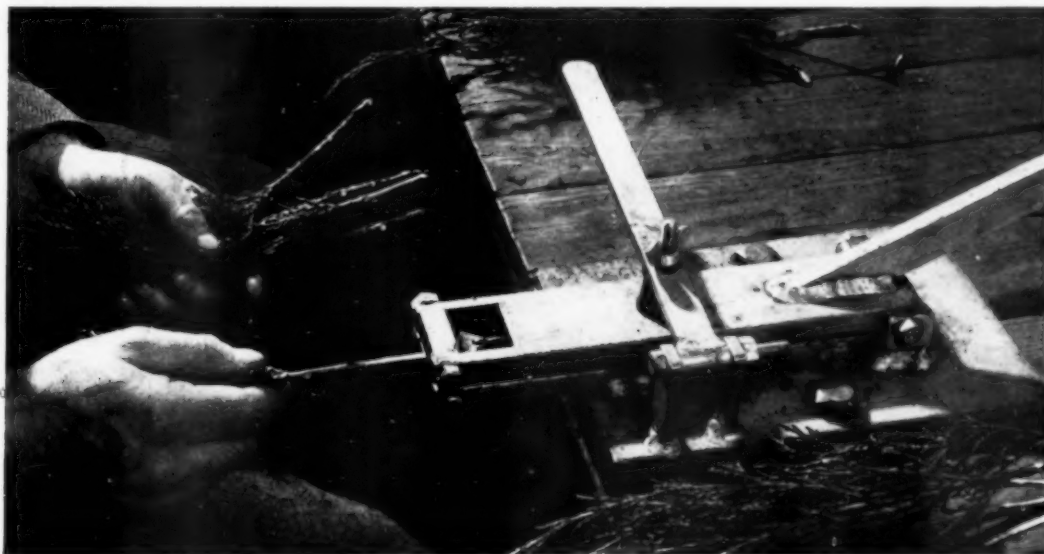
tip of the knife blade down a small diameter stem, as with Pfizer junipers, the method can become somewhat time consuming and laborious.

With typical American ingenuity, Herman Schmidt, the propagator at D. Hill Nursery Co., Dundee, Ill., devised a simple method of carrying out this wounding routine rapidly and with greatly increased efficiency. The illustration will give some idea of what this simple process is. A device is made consisting of four Gem razor blades, which are held together in a vise while the metal shoulders on the blades are soldered together. The solder is run along the top of these metal shoulders and just over

the end to seal in the blades so that they will not come loose in motion. The result is a closely attached group of four blades with a distance between blades of perhaps $1/32$ of an inch. No additional spacing between blades is given other than that provided by the metal shoulders.

This tool can be used to cut rapidly the base of narrow caliper cuttings, such as Pfizer juniper, as shown in the illustration. No matter how small the size of the stem, at least two cuts are almost certain to be made in it, and on larger stems three or even four cuts are made. This increased wounding has been

[Continued on page 49]



The Sneed Scion Cutter.

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	Per 10	Per 100	Per 1000
12 to 18 ins., T., well-br.	\$2.50	\$20.00	---
18 to 24 ins., T., well-br.	3.50	27.50	---

ALTHAEA ROSEA, single flowers, mixed colors

4 to 6 ins., S.	.50	\$ 4.00	---
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12 to 18 ins., S.	1.25	10.00	---
18 to 24 ins., S.	1.50	12.00	---
2 to 3 ft., S.	1.75	15.00	---

BERBERIS THUNBERGI (Green-leaved Barberry)

6 to 12 ins., 2-yr., S.	.75	5.00	40.00
12 to 15 ins., 2-yr., S.	1.00	6.00	55.00
15 to 18 ins., 2-yr., S.	1.25	7.00	65.00
12 to 15 ins., hedging	1.25	8.00	75.00
15 to 18 ins., hedging	1.50	12.50	100.00
18 to 24 ins., hedging	2.00	15.00	125.00

CALYCANTHUS FLORIDUS (Sweet Shrub)

6 to 12 ins., S.	2.50	20.00	---
12 to 18 ins., S.	3.50	30.00	---
18 to 24 ins., S.	.75	4.50	40.00
2 to 3 ft., S.	1.00	6.50	60.00
12 to 18 ins., T.	2.50	20.00	175.00
18 to 24 ins., T.	3.00	25.00	225.00
2 to 3 ft., T.	3.50	30.00	250.00
3 to 4 ft., T.	4.00	35.00	275.00

CORNUS STOLONIFERA (Red Osier Dogwood)

6 to 12 ins., S.	1.50	10.00	---
12 to 18 ins., S.	2.00	15.00	---
18 to 24 ins., S.	2.50	20.00	---
6 to 12 ins., 1-yr., C.	2.50	20.00	---
12 to 18 ins., 1-yr., C.	3.00	25.00	---
12 to 18 ins., 2-yr., well-br.	1.25	8.00	---
18 to 24 ins., 2-yr., well-br.	1.75	12.50	---

CYDONIA JAPONICA (Japanese Quince)

4 to 6 ins., S.	2.00	15.00	---
6 to 12 ins., S.	2.50	20.00	---
12 to 18 ins., S.	3.00	25.00	---
18 to 24 ins., S.	.75	4.50	40.00
2 to 3 ft., S.	1.00	6.50	60.00

CYDONIA JAPONICA RUBRA (Japanese Quince)

true, upright red, nonfruiting			
L.O., C., 4 to 6 ins.	1.25	9.00	70.00
6 to 12 ins., C.	1.50	10.00	80.00
12 to 18 ins., C.	1.75	12.50	100.00
18 to 24 ins., C.	2.00	15.00	125.00
12 to 18 ins., 2-yr., well-br.	3.00	25.00	225.00
18 to 24 ins., 2-yr., well-br.	4.00	35.00	300.00
2 to 3 ft., 3-yr., well-br.	5.00	45.00	400.00

CYTISUS SCOPARIUS (Scotch Broom)

6 to 12 ins., S.	3.00	25.00	---
12 to 18 ins., S.	3.50	30.00	---
18 to 24 ins., S.	.60	4.00	35.00
2 to 3 ft., S.	.75	5.50	50.00
3 to 4 ft., S.	.90	7.50	70.00
18 to 24 ins., S., br., heavy	1.50	12.50	100.00
2 to 3 ft., S., br., heavy	1.75	15.00	125.00
3 to 4 ft., S., br., heavy	2.00	17.50	150.00

DEUTZIA SCABRA

Varieties:			
Candide, double white			
Crenata, double pink			
Pride of Rochester, Double White			
6 to 12 ins., 1-yr., C.	2.50	20.00	---
12 to 18 ins., 1-yr., C.	3.00	25.00	---
18 to 24 ins., 1-yr., C.	.75	3.50	30.00
12 to 18 ins., well-br.	1.00	6.00	50.00
18 to 24 ins., well-br.	1.50	10.00	80.00
2 to 3 ft., well-br.	1.75	12.50	100.00

FORSYTHIA FORTUNEI (Fortune Forsythia—Golden Bell)

FORSYTHIA INTERMEDIA (Border Forsythia—Golden Bell)

FORSYTHIA SPECTABILIS (Showy Border Forsythia—Golden Bell)

6 to 12 ins., C.	2.50	20.00	---
12 to 18 ins., C.	3.50	30.00	---
18 to 24 ins., C.	4.00	35.00	---
2 to 3 ft., C.	5.00	45.00	---
12 to 18 ins., 2-yr., well-br.	6.00	---	---
18 to 24 ins., 2-yr., well-br.	10.00	---	---

HYDRANGEA PANICULATA GRANDIFLORA

(Peegee Hydrangea)

	Per 10	Per 100	Per 1000
4 to 6 ins., 1-yr., C.	\$0.70	\$4.50	\$40.00
6 to 12 ins., 1-yr., C.	.80	5.50	50.00
12 to 18 ins., 1-yr., C.	1.00	6.50	60.00
12 to 18 ins., 2-yr., well-br.	2.00	15.00	125.00
18 to 24 ins., 2-yr., well-br.	2.50	20.00	175.00
2 to 3 ft., 2-yr., well-br.	3.50	30.00	250.00

HYDRANGEA QUERCIFOLIA (Oak-leaf Hydrangea)

12 to 15 ins., 1., br.	4.50	40.00	---
15 to 18 ins., T., br.	5.50	50.00	---
18 to 24 ins., T., br.	6.50	60.00	---

PRIVET

LIGUSTRUM AMURENSE (Amur River North Privet)

LIGUSTRUM IBOLIUM (Ibodium Privet)

L.O., field-grown, 1 and 2 canes	2.50	20.00	---
6 to 12 ins., 2 br.	2.75	25.00	---
12 to 18 ins., 2 br.	4.00	35.00	---
18 to 24 ins., 2 br.	6.00	50.00	---
12 to 18 ins., 3 br. and up	6.00	50.00	---
18 to 24 ins., 3 br. and up	7.00	65.00	---
2 to 3 ft., 4 br. and up	12.00	100.00	---

LIGUSTRUM OBTUSIFOLIUM (Ibota Privet)

6 to 12 ins., S.	2.00	15.00	---
12 to 18 ins., S.	2.50	20.00	---
6 to 12 ins., 2 br.	3.50	30.00	---
12 to 18 ins., 2 br.	7.00	60.00	---
18 to 24 ins., 2 br.	8.00	70.00	---
12 to 18 ins., 3 br. and up	8.00	70.00	---
18 to 24 ins., 3 br. and up	10.00	90.00	---

LIGUSTRUM OVALIFOLIUM (California Privet)

L.O., field-grown	2.00	17.50	---
6 to 12 ins., 2 br.	2.50	20.00	---
Grafting grade, 3/16 to 1/4-in. cal.	3.50	30.00	---
Grafting grade, 1/4-in. cal. and up	4.00	35.00	---
12 to 18 ins., 2 br.	4.00	35.00	---
18 to 24 ins., 2 br.	5.00	45.00	---
12 to 18 ins., 3 br. and up	5.00	45.00	---
18 to 24 ins., 3 br. and up	6.50	60.00	---
2 to 3 ft., 4 br. and up	8.00	75.00	---
3 to 4 ft., 5 br. and up	12.50	100.00	---

LONICERA

(Flowering Honeysuckle)

LONICERA BELLA ALBA (White-flowering Honeysuckle)

LONICERA MORROWI (White-flowering Honeysuckle)

LONICERA TATARICA ROSEA (Pink-flowering Honeysuckle)

LONICERA TATARICA RUBRA (Pink-flowering Honeysuckle)

4 to 6 ins., C., L.O.	2.50	20.00	---
6 to 12 ins., C., L.O.	3.50	30.00	---
12 to 18 ins., C., L.O.	5.00	40.00	---
18 to 24 ins., C., L.O.	5.50	45.00	---
6 to 12 ins., hedging	6.50	60.00	---
12 to 18 ins., hedging	10.00	90.00	---
18 to 24 ins., hedging	1.50	12.50	100.00
18 to 24 ins., 2-yr., T., well-br.	2.50	17.50	150.00
2 to 3 ft., 2-yr., T., well-br.	4.00	30.00	250.00

LONICERA FRAGRANTISSIMA (Winter Honeysuckle)

6 to 12 ins., 1-yr., C.	4.50	35.00	---
12 to 18 ins., 1-yr., C.	5.00	40.00	---
18 to 24 ins., 1-yr., C.	6.00	50.00	---
12 to 18 ins., 2-yr., well-br.	10.00	75.00	---
18 to 24 ins., 2-yr., well-br.	12.50	100.00	---

PHILADELPHUS CORONARIUS (Sweet Mock Orange)

L.O., field-grown, 1 and 2 br.	3.00	25.00	---
6 to 12 ins., 1-yr., C.	4.00	35.00	---
12 to 18 ins., 1-yr., C.	4.50	40.00	---
12 to 18 ins., 2-yr., br.	1.50	10.00	90.00
18 to 24 ins., 2-yr., br.	2.00	15.00	125.00
2 to 3 ft., 4 br.	2.50	20.00	150.00

WHOLESALE PRICE LIST—FOREST NURSERY CO.

HARDY DECIDUOUS FLOWERING SHRUBS—Continued

RHUS CANADENSIS (Aromatica) (Fragrant Sumac)

	Per 10	Per 100	Per 1000
4 to 6 ins., S.		\$ 5.00	\$ 45.00
6 to 12 ins., S.	\$1.00	8.00	75.00
12 to 18 ins., S.	1.25	10.00	90.00
18 to 24 ins., S.	1.50	12.50	

SPIRAEA PRUNIFOLIA (Bridal Wreath)

12 to 18 ins., L.O. div.	.90	6.00	50.00
18 to 24 ins., L.O. div.	1.25	7.00	60.00
12 to 18 ins., 2-yr., well-br.	3.00	20.00	
18 to 24 ins., 2-yr., well-br.	3.50	25.00	
2 to 3 ft., 2-yr., well-br.	4.00	30.00	
3 to 4 ft., 2-yr., well-br., heavy clumps	6.00	50.00	
4 to 5 ft., 2-yr., well-br., heavy clumps	7.00	60.00	

SPIRAEA THUNBERGI

6 to 12 ins., C.	.75	5.00	40.00
12 to 18 ins., C.	1.00	7.50	60.00
18 to 24 ins., C.	1.15	8.50	70.00
12 to 18 ins., 2-yr., well-br.	1.50	12.50	
18 to 24 ins., 2-yr., well-br.	2.50	20.00	
2 to 3 ft., 2-yr., well-br.	3.00	25.00	

SPIRAEA VANHOUTTEI (Van Houtte Spiraea)

L.O., field-grown		3.50	25.00
6 to 12 ins., C.		4.50	30.00
12 to 18 ins., C.		5.50	35.00
9 to 12 ins., hedging		5.50	40.00
12 to 18 ins., hedging	1.00	7.50	60.00
18 to 24 ins., hedging	1.25	9.00	75.00
12 to 18 ins., well-br.	2.00	15.00	100.00
18 to 24 ins., well-br.	2.50	20.00	150.00
2 to 3 ft., well-br.	3.00	25.00	200.00

SYRINGA PERSICA (Persian Lilac, Purple)

4 to 6 ins., 1-yr., C.	1.00	7.50	70.00
6 to 12 ins., 1-yr., C.	1.25	9.00	80.00
12 to 18 ins., 1-yr., C.	1.50	12.00	100.00
18 to 24 ins., 1-yr., C.	1.75	15.00	125.00
12 to 18 ins., 2-yr., well-br.	2.50	20.00	
18 to 24 ins., 2-yr., T., well-br.	3.00	25.00	
2 to 3 ft., 2-yr., T., well-br.	4.00	35.00	
3 to 4 ft., 2-yr., T., well-br.	5.50	45.00	

VIBURNUM TOMENTOSUM (Double-file Viburnum)

4 to 6 ins., 1-yr., C.	1.50	10.00	
6 to 12 ins., 1-yr., C.	2.00	15.00	
12 to 18 ins., 2-yr., well-br.	4.00	35.00	
18 to 24 ins., 2-yr., well-br.	6.00	50.00	
2 to 3 ft., 2-yr., well-br.	7.50	65.00	

SYRINGA VULGARIS (Common Purple Lilac), own root

	Per 10	Per 100	Per 1000
6 to 12 ins., 2-yr., S.	\$1.50	\$12.00	\$100.00
12 to 18 ins., 2-yr., S.	1.75	15.00	125.00
18 to 24 ins., 2-yr., S.	2.25	20.00	175.00
12 to 18 ins., 2-yr., mostly whips	2.00	17.50	150.00
18 to 24 ins., 2-yr., mostly whips	3.00	25.00	200.00
2 to 3 ft., 2-yr., mostly whips	3.50	30.00	250.00
3 to 4 ft., 2-yr., mostly whips	5.00	45.00	350.00
12 to 18 ins., 3-yr., well-br.	2.50	20.00	
18 to 24 ins., 3-yr., well-br.	3.00	25.00	
2 to 3 ft., 3-yr., well-br.	4.00	35.00	

VITEA AGNUS-CASTUS (Lilac Chaste Tree)

6 to 12 ins., S.		4.00	35.00
12 to 18 ins., S.		5.00	45.00
18 to 24 ins., S.		6.00	55.00
2 to 3 ft., S.		7.00	65.00
3 to 4 ft., S.	1.00	8.00	75.00
4 to 5 ft., S.	1.10	9.00	85.00

WEIGELA AMABILIS, light pink

WEIGELA HENDERSONI, dark pink			
L.O., field-grown, C.		3.50	25.00
6 to 12 ins., C.		4.00	30.00
12 to 18 ins., C.		5.00	35.00
18 to 24 ins., C.		6.00	50.00
12 to 18 ins., 2-yr., br.	2.00	12.50	100.00
18 to 24 ins., 2-yr., br.	2.50	20.00	150.00
2 to 3 ft., 2-yr., br.	3.00	25.00	200.00
3 to 4 ft., 2-yr., br.	3.50	30.00	

WEIGELA LUTEA, yellow

6 to 12 ins., C.		6.00	50.00
12 to 18 ins., C.	1.00	7.50	60.00
12 to 18 ins., 2-yr., well-br.	2.50	20.00	
18 to 24 ins., 2-yr., well-br.	3.00	25.00	

WEIGELA ROSEA, pink

L.O., field-grown, C.		3.00	25.00
6 to 12 ins., C.		3.50	30.00
12 to 18 ins., C.		4.50	40.00
12 to 18 ins., 2-yr., well-br.	1.50	10.00	
18 to 24 ins., 2-yr., well-br.	2.50	15.00	
2 to 3 ft., 2-yr., well-br.	2.50	20.00	
3 to 4 ft., 2-yr., well-br.	3.00	25.00	

WEIGELA NANA VARIEGATA, variegated foliage,

pink-flowering			
6 to 12 ins., C.		5.00	40.00
12 to 18 ins., C.	1.00	7.00	60.00
18 to 24 ins., C.	1.50	10.00	75.00
12 to 18 ins., well-br.	1.75	12.50	100.00
18 to 24 ins., well-br.	2.00	17.50	150.00
2 to 3 ft., well-br.	2.50	22.50	200.00

FOREST AND SHADE TREES

ACER DASycARPUM (Silver Maple)

	Per 10	Per 100	Per 1000
6 to 12 ins., S.		\$ 1.25	\$ 10.00
12 to 18 ins., S.		1.75	15.00
18 to 24 ins., S.		2.25	20.00
2 to 3 ft., S.		2.75	25.00
3 to 4 ft., S.		3.75	35.00
4 to 5 ft., S.		5.50	50.00
5 to 6 ft., T., well-br., tops	\$ 5.00	40.00	
5 to 6 ft., T., well-br., tops	7.50	60.00	
6 to 8 ft., T., well-br., tops	10.00	80.00	
8 to 10 ft., T., well-br., tops	15.00	125.00	

ACER SACCHARUM (Sugar or Hard Maple)

4 to 6 ins., S.		2.50	20.00
6 to 12 ins., S.		3.00	25.00
12 to 18 ins., S.		3.50	30.00
18 to 24 ins., S.		4.00	35.00

ALBIZZIA JULIBRISSIN (Mimosa Tree)

6 to 12 ins., S.		3.50	25.00
12 to 18 ins., S.		4.00	35.00
18 to 24 ins., S.	1.00	6.00	50.00
2 to 3 ft., S.	1.50	8.00	60.00

CATALPA BUNGEI

3 to 4-ft. stems, 2-yr. heads	12.50		
4 to 5-ft. stems, 2-yr. heads	15.00		
5 to 6-ft. stems, 2-yr. heads	17.50		
6 to 8-ft. stems, 2-yr. heads	20.00		

CATALPA SPECIOSA (Northern Catalpa)

Very popular for the production of Catalpa worms: excellent for pan fish bait (Bream, Perch and other small Sunfish).			
6 to 12 ins., 1-yr., S.	1.00	8.00	
12 to 18 ins., 1-yr., S.	1.50	12.50	
18 to 24 ins., 1-yr., S.	2.00	17.50	
2 to 3 ft., 1-yr., S.	2.50	20.00	
4 to 5 ft., T., br.	7.50		
5 to 6 ft., T., br.	10.00		
6 to 8 ft., T., br.	12.50		

CERCIS CANADENSIS (American Redbud)

6 to 12 ins., S.		2.50	17.50
12 to 18 ins., S.		3.00	22.50
18 to 24 ins., S.		3.50	32.50
2 to 3 ft., S.		4.00	37.50
3 to 4 ft., S.		4.50	42.50
3 to 4 ft., T., br.	5.00	40.00	
4 to 5 ft., T., br.	6.50	55.00	

CERCIS CHINENSIS (Chinese Redbud)

4 to 6 ins., S.		2.50	20.00
6 to 12 ins., S.		3.00	25.00
12 to 18 ins., S.		3.50	30.00

CLADRASTIS LUTEA (Yellowwood)

6 to 12 ins., S.		4.00	30.00
12 to 18 ins., S.		6.00	45.00
18 to 24 ins., S.		7.50	60.00

CORNUS FLORIDA (White Dogwood)

	Per 10	Per 100	Per 1000
6 to 12 ins., S.		\$ 2.50	\$ 20.00
12 to 18 ins., S.		3.50	30.00
18 to 24 ins., S.		5.00	45.00
2 to 3 ft., S.		5.50	50.00
2 to 3 ft., 2-yr., well-br.	\$ 6.00	50.00	
3 to 4 ft., 2-yr., well-br.	15.00	125.00	

(Add 50¢ per plant for B&B)

CORNUS FLORIDA RUBRA (Pink Dogwood)

12 to 18 ins.	9.00	75.00	
18 to 24 ins.	12.50	100.00	
24 to 36 ins.	15.00	125.00	
30 to 36 ins.	17.50	150.00	
3 to 4 ft.	30.00	250.00	

(Add 50¢ per plant for B&B)

FRAXINUS AMERICANA (White Ash)

FRAXINUS LANCEOLATA (Green Ash)			
6 to 12 ins., S.		1.00	9.00
12 to 18 ins., S.		1.50	12.50
18 to 24 ins., S.		2.50	20.00
2 to 3 ft., S.		3.00	25.00
4 to 5 ft., S., br.	5.00	40.00	
5 to 6 ft., S., br.	6.00	50.00	
6 to 8 ft., S., br.	8.00	75.00	

GINKGO BILOBA

4 to 6 ins., S.		1.50	10.00
6 to 9 ins., S.		1.75	12.50
9 to 12 ins., S.		2.00	15.00
12 to 18 ins., S.		2.50	20.00

GLEDITSIA TRIACANTHOS (Honey Locust)

GLEDITSIA TRIACANTHOS INERMIS (Thornless Honey Locust)			
6 to 12 ins., S.		1.25	10.00
12 to 18 ins., S.		1.50	12.50
18 to 24 ins., S.		2.00	17.50
2 to 3 ft., S.		2.50	22.50

GYMNOCLADUS DIICUS (Kentucky Coffee Tree)

6 to 12 ins., S.		1.25	10.00
12 to 18 ins., S.		1.50	12.50
18 to 24 ins., S.		2.00	17.50
2 to 3 ft., S.		4.50	30.00
3 to 4 ft., S.		5.50	
4 to 5 ft., S.		6.50	
5 to 6 ft., S.		7.50	

See page 16 for Hardy Deciduous Flowering Shrubs; page 18 for Forest and Shade Trees, Nut Trees, Vines and Creepers and Broad-leaved Evergreens.

WHOLESALE PRICE LIST—FOREST NURSERY CO.

FOREST AND SHADE TREES—Continued

KOELREUTERIA PANICULATA (Golden Rain Tree)			
	Per 10	Per 100	Per 1000
6 to 12 ins., S.	\$2.50	\$ 20.00	
12 to 18 ins., S.	3.50	30.00	
18 to 24 ins., S.	5.00	45.00	
2 to 3 ft., S.	5.50	45.00	
3 to 4 ft., S.	6.00	50.00	
4 to 5 ft., S.	6.50	60.00	

LIQUIDAMBAR STYRACIFLUA (Sweet Gum)			
	Per 10	Per 100	Per 1000
4 to 5 ft., T., well-br.	10.00	80.00	
5 to 6 ft., T., well-br.	12.50	100.00	
6 to 8 ft., T., well-br.	15.00	125.00	
8 to 10 ft., T., well-br.	25.00	200.00	

(Add \$1.00 per tree for B&B)

LIRIODENDRON TULIPIFERA (Tulip Tree)			
	Per 10	Per 100	Per 1000
3 to 4 ft., T.	6.00	40.00	
4 to 5 ft., T.	7.50	60.00	
5 to 6 ft., T.	10.00	75.00	
6 to 8 ft., T.	12.50	100.00	

MALUS (Flowering Crab Apple)

<i>Aidenhamensis</i> , crimson			
<i>Elroy</i> , bright red			
<i>Floribunda</i> , pink			
<i>Hopa</i> , red			
<i>Normandi</i> , pink with large red fruit			
3 to 4 ft., 2-yr., grafts, whips	3.50	30.00	
4 to 5 ft., 2-yr., grafts, whips	4.50	40.00	
3 to 4 ft., 7/16-in. cal., 2-yr., grafts, br.	6.50	60.00	
4 to 5 ft., 9/16-in. cal., 2-yr., grafts, br.	8.00	75.00	
5 to 6 ft., 11/16-in. cal., 2-yr., grafts, br.	10.00	90.00	

(Add 50c per tree for B&B)

MORUS ALBA TATARICA (Russian Mulberry)			
	Per 10	Per 100	Per 1000
6 to 12 ins., S.	1.50	\$ 10.00	
12 to 18 ins., S.	2.00	15.00	
18 to 24 ins., S.	2.75	22.50	
2 to 3 ft., S.	3.50	30.00	

PLATANUS OCCIDENTALIS (American Plane Tree—American Sycamore)			
	Per 10	Per 100	Per 1000
6 to 12 ins., S.	2.00	15.00	
12 to 18 ins., S.	2.50	20.00	
18 to 24 ins., S.	3.50	30.00	
2 to 3 ft., S.	.75	5.00	40.00
3 to 4 ft., S.	.90	5.50	50.00
4 to 5 ft., S.	1.00	6.50	60.00
6 to 8 ft., T.	15.00	100.00	

POPULUS NIGRA ITALICA (Lombardy Poplar)			
	Per 10	Per 100	Per 1000
6 to 12 ins., C.	1.50	12.00	
12 to 18 ins., C.	.50	2.00	17.50
18 to 24 ins., C.	.60	3.00	25.00
2 to 3 ft., C.	.75	5.00	40.00
4 to 5 ft., 2-yr., C., br.	1.75	15.00	90.00
5 to 6 ft., 2-yr., C., br.	2.50	20.00	150.00
4 to 5 ft., T., br.	3.00	20.00	
5 to 6 ft., T., br.	4.00	30.00	
6 to 8 ft., T., br.	5.00	40.00	
8 to 10 ft., T., br.	6.00	50.00	

PRUNUS PERSICA (Flowering Peach)

Double Red			
Double Pink			
Double White			
Peppermint Stick			
12 to 18 ins., br., June bud	2.00	15.00	
18 to 24 ins., br., June bud	2.50	20.00	
2 to 3 ft., br., June bud	3.00	25.00	
3 to 4 ft., br., June bud	3.50	30.00	
5/16 to 7/16-in. cal., 2 to 3 ft., dormant bud	3.50	30.00	
7/16 to 9/16-in. cal., 3 to 4 ft., dormant bud	4.00	35.00	
9/16 to 11/16-in. cal., 4 to 5 ft., dormant bud	4.50	40.00	
11/16-in. cal. and up, 5 to 6 ft., dormant bud	5.00	45.00	

PRUNUS (Redleaf Peach)

combination fruiting and flowering peach			
12 to 18 ins., June bud	2.00	15.00	
18 to 24 ins., June bud	2.50	20.00	
2 to 3 ft., June bud	3.00	25.00	
7/16-in. cal., dormant bud	4.00	35.00	
9/16-in. cal., dormant bud	5.00	45.00	

PRUNUS NEWPORT (Purple-leaf Plum)

PRUNUS THUNDERCLOUD (Purple-leaf Plum)			
	Per 10	Per 100	Per 1000
12 to 18 ins., June bud	2.00	15.00	
18 to 24 ins., June bud	2.50	20.00	
2 to 3 ft., June bud	3.00	25.00	
3 to 4 ft., June bud	3.50	30.00	
5/16 to 7/16-in. cal., 2 to 3 ft., dormant bud	3.50	30.00	
7/16 to 9/16-in. cal., 3 to 4 ft., dormant bud	4.00	35.00	
9/16 to 11/16-in. cal., 4 to 5 ft., dormant bud	4.50	40.00	
3 to 4 ft., dormant bud, bush form	5.00	45.00	
4 to 5 ft., dormant bud, bush form	6.00	50.00	

QUERCUS ALBA (White Oak)

QUERCUS PRUNUS (Chestnut Oak)			
	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.70	4.50	32.00
12 to 18 ins., S.	.80	5.50	42.00
18 to 24 ins., S.	.90	6.50	52.00
2 to 3 ft., S.	1.00	7.50	
3 to 4 ft., S.	1.25	10.00	

QUERCUS RUBRA (Red Oak)

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	\$0.75	\$ 5.00	
6 to 12 ins., S.	.90	5.50	

TAXODIUM DISTICHUM (Bald Cypress)

	Per 10	Per 100	Per 1000
6 to 12 ins.	1.00	8.00	
12 to 18 ins.	1.50	10.00	
18 to 24 ins.	2.00	15.00	
2 to 3 ft.	2.50	20.00	
3 to 4 ft.	3.00	25.00	
4 to 5 ft.	3.50	30.00	

TILIA AMERICANA (American Linden)

	Per 10	Per 100	Per 1000
2 to 3 ft., T., br.	4.00		
3 to 4 ft., T., br.	6.00		
4 to 5 ft., T., br.	9.00		

ULMUS AMERICANA (American Elm)

	Per 10	Per 100	Per 1000
6 to 12 ins., S.		1.25	\$ 8.00
12 to 18 ins., S.		1.75	10.00
4 to 5 ft., T., well-br.	5.00	40.00	
5 to 6 ft., T., well-br.	7.50	65.00	
6 to 8 ft., T., well-br.	9.00	75.00	

ULMUS PUMILA (Chinese Elm)

	Per 10	Per 100	Per 1000
6 to 8 ins., S.		1.50	10.00
12 to 18 ins., S.		2.00	15.00
18 to 24 ins., S.		3.00	20.00
2 to 3 ft., S.		4.00	30.00
3 to 4 ft., S.		6.00	45.00
4 to 5 ft., S.	1.25	10.00	75.00

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This is the true blight-resistant Chinese Chestnut from an orchard of selected strain.

	Per 10	Per 100	Per 1000
4 to 6 ins., 1-yr., S.	\$2.00	\$15.00	
6 to 12 ins., 1-yr., S.	3.00	20.00	
12 to 18 ins., 2-yr., S.	4.00	30.00	
18 to 24 ins., 2-yr., S.	5.00	40.00	
2 to 3 ft., 2-yr., S.	7.00	55.00	
3 to 4 ft., 2-yr., S.	8.00	65.00	

JUGLANS CINEREA (White Walnut—Butternut)

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.75	5.50	
12 to 18 ins., S.	1.00	8.00	
18 to 24 ins., S.	1.25	10.00	
2 to 3 ft., S.	2.00	17.50	
3 to 4 ft., S.	4.50	35.00	
4 to 5 ft., S.	5.50	45.00	

VINES AND CREEPERS

CELASTRUS ORBICULATA (Oriental Bittersweet)

CELASTRUS SCANDENS (American Bittersweet)			
	Per 10	Per 100	Per 1000
6 to 12 ins., S.	\$0.50	\$3.00	\$22.50
12 to 18 ins., S.	.60	3.50	25.00
18 to 24 ins., S.	.70	4.00	30.00
2 to 3 ft., S.	.80	4.50	35.00
6 to 12 ins., 1-yr., C.	.50	3.00	25.00
12 to 18 ins., 1-yr., C.	.60	4.00	25.00
18 to 24 ins., 1-yr., C.	.75	5.00	45.00

LONICERA JAPONICA HALLIANA (Hall's Japanese Honeysuckle)

small lining-out		7.50	
medium lining-out		12.50	
3-in. pot plants	1.75	15.00	125.00
2-yr., T., No. 1		6.50	60.00
2-yr., T., No. 2		5.50	50.00
2-yr., T., No. 3		4.50	40.00
3-yr., T., No. 1, heavy		8.00	75.00

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WISTARIA FRUTESCENS (American Wistaria)

WISTARIA SINENSIS (Chinese Wistaria, Blue)			
	Per 10	Per 100	Per 1000
4 to 6 ins., 1-yr., S.	.75	5.00	
6 to 12 ins., 1-yr., S.	1.00	7.50	
12 to 18 ins., 1-yr., S.	1.15	9.00	

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ABELIA GRANDIFLORA (Glossy Abelia)

	Per 10	Per 100	Per 1000
6 to 12 ins., field-grown, C., 2-yr.	\$1.25	\$ 7.50	\$ 60.00
12 to 18 ins., field-grown, C., 2-yr.	1.50	10.00	80.00
18 to 24 ins., field-grown, C., 2-yr.	1.75	12.50	100.00
2 to 3 ft., field-grown, C., 2-yr.	2.00	17.50	150.00
12 to 18 ins., T., well-br., B.R.	3.50	25.00	
18 to 24 ins., T., well-br., B.R.	5.00	40.00	
2 to 3 ft., T., well-br., B.R.	7.00	50.00	
2 to 3 ft., B&B, heavy clumps	12.50	100.00	
3 to 4 ft., B&B, heavy clumps	17.50	150.00	

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COVER ILLUSTRATION

Chamaecyparis Obtusa Gracilis

Chamaecyparis obtusa gracilis, the slender Hinoki false cypress, is one of the good medium-size narrow-leaved evergreens in the northeastern states. It does not do so well in the midwest.

This variety of the Hinoki false cypress is relatively narrow and upright in outline, reaching a height of about 25 to 30 feet. The native habitat of the species is Japan, and it was introduced about 1861. It is listed in zone 3 by Rehder. The generic name, chamaecyparis, comes from the Greek words "chamai," meaning dwarf or on the ground and "kyparissos" meaning cypress. The specific name, obtusa, refers to the obtuse or blunt needle tips and the variety name, gracilis, means graceful and slender and refers to the habit of growth of the plant.

The leaves are dark, glossy green above and somewhat lighter and marked with white lines below. Flowers and fruits are not important ornamentally.

The slender Hinoki false cypress requires good soil, retentive of moisture but well drained.

It prefers a cool soil and cool climate. This explains why it does better in regions of Long Island, N. Y.; Massachusetts, and Rhode Island than the hotter, drier climate of the midwest.

Plants do well in sun or part shade, in favorable climates, transplant readily, require little pruning and are less subject to insects than the arborvitae. Propagation is usually by grafting, since cuttings root with some difficulty.

Chamaecyparis obtusa gracilis can be used effectively as specimen plants, for screen and border plantings and for corner foundation plantings. L. C. C.

CORRECTION

A misidentification resulting from a mechanical error occurred in the picture caption on page 9 of the September 15 issue of the American Nurseryman. The man at the extreme left of the back row is John B. Strander, Seattle, Wash., editor of the Washington State Nurserymen's Association journal, "Balls and Burlaps," not Vic Mix. The remainder of the identifications, beginning with that of John Snyder, is correct; Vic Mix is correctly identified in the fourth line of the caption as being at the extreme left of the front row.

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Cordell Hull—Red with white stripes.	50.00
Farncombe Sanders—Rose-scarlet, 28 ins.	38.00
Pride of Haarlem—Large red, 28 ins.	38.00
Princess Elizabeth—Rose pink, 26 ins.	40.00
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Queen of Night—Black, 28 ins.	38.00
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Sunkist—Golden-yellow, 26 ins.	42.00
The Bishop—Violet-blue, 28 ins.	50.00
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Rainbow Mixture—All colors.	36.00

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PLANT NOTES HERE AND THERE

By C. W. Wood

The often repeated phrase "confusion in gardens," which is used by the technical-minded person in talking about anthesis, is well-founded in fact. Gardeners are not the only ones who have trouble in trying to keep their anthesis names straight, either, for one does not have to delve far into botanical literature to find that botanists have had, and apparently are still having, their differences and difficulties—a fact which makes a loophole for the exit of this writer in case he becomes too confused in his nomenclature.

One would scarcely suspect from the small number of kinds found in gardens that the genus *anthesis* is a large one. Aside from *Anthesis tinctoria* and its forms and *A. nobilis*, camomile, few representatives are found in American gardens. Considering the facts that the former is ambitious to possess the earth and that the other is thought of mostly as a medicinal plant, it is not hard to understand the apparent neglect of the remainder of the group.

Most gardeners have, or have had, *A. tinctoria*; so it needs no description here. Not all possessors of the plant know its possibilities, though. Given a rich soil and a fair amount of moisture during dry periods, it produces on long stems extra-large golden marguerites which can be picked from June until winter. It, too, is one of the plants that hold out encouragement to the amateur plant breeder. Since it is more or less in a state of flux, the plant should, with intelligent selection over a period of years, yield a rich harvest of improved forms, as it has in the past in such named forms as E. C. Buxton, Perry's variety, Grallagh Gold, Moonlight and the patented, fully double Golden Dawn.

The camomile, *A. nobilis*, is scarcely to be recommended for its ornamental value, although its close association with gardeners who have preceded us on the scene and its value as a lawn carpet under certain conditions give it a place in our scheme of things. And, of course, no herb garden is complete without it. Remembering that the naming of the camomiles is in a state of confu-

sion, I shall discuss a few other kinds.

I had thought of commencing with *Anthesis aizoon*, but find, when I refer to Hortus, that the botanists now say the plant should be called *Achillea ageratifolia aizoon*; so, speaking in an alphabetical order, I will pass on to *A. alpina*. It may be that I never had the true *alpina*, but as the same plant showed up several

times in our trials in the same form, I am assuming that it was the right plant. It makes a restrained mat of pretty, silvered leaves, something on the order of *Achillea umbellata*, though the flower heads were typically *anthesis* like. These heads, which are white and borne one to the stem, came, on 5 to 6-inch stems, earlier than any camomile that I now remember. It did not self-sow

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Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
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Ilex Crenata Convexa
Ilex Crenata Rotundifolia
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Juniperus Pfitzeriana Compacta
Juniper Pfitzeriana Aurea
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Juniperus Sabina Vonehron
Juniperus Sabina Vonehron
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(Chinensis Femina)
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in our trials and did not spread from the root, but made a nice, refined little ornament.

Although often highly spoken of in the literature, *A. Biebersteiniana* did not greatly appeal to me as a garden plant, despite the fact that it has the silky foliage that I admire in most plants. Its yellow marguerites on tall stems (to 15 inches or so) and general weedy appearance outweighed its silkiness so far as I was concerned.

On the other hand, *A. cupaniana* has much to recommend it to gardeners in all except the coldest sections. A vigorous plant, it makes a mass of gray, ferny, fragrant foliage, two feet or more across and up to six inches deep, from which spring foot-tall stems bearing large, pure white camomile flowers throughout summer and autumn. Like most camomiles, it seems altogether indifferent to treatment, making itself at home almost anywhere. I should expect it to be a good seller in the neighborhood nursery.

Anthemis Montana Varies

Unfortunately, *A. montana* means many things in gardens, and I shall not try to say which is right. The plant varies into many forms as it travels along the European side of the Mediterranean from the Atlantic into Asia. In all forms that I know, it makes pretty mats of divided leaves (variable in the different kinds), usually somewhat gray or silvered, and always, so far as I have seen it, with white daisies, though the literature mentions a variety, *aetnensis*, with pink flowers. It is also described as having a lovely, close tuft of leaves. These attributes should make a beautiful plant. Two lovely variations are also to be found in *saxatilis*, which is white, silky and woolly, with silky, silvered columns.

The remarks on marguerites could be extended for page after page, perhaps with some interest to the curious, but scarcely of sufficient value to the majority of readers to justify use of space at this time. I should like, however, to mention one more plant, *A. hausknechti*, of doubtful name and origin, and of great beauty of leafage. I do not find the name anywhere and use it only because that is the label it had here when the seeds came to me years ago from a European botanic garden. It was one of the loveliest of white-leaved plants, as distinguished from the silvery-leaved ones, with yellow-rayed flowers on foot-tall stems in May. The flowers are of far less consequence than the much-divided white



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<i>Juniperus chinensis columnaris</i> (grafted blue), 5 to 6 ft.	77.50	700.00
<i>Juniperus chinensis pfitzeriana</i> , 18 to 24 ins.	32.50	300.00
24 to 30 ins.	42.50	400.00
30 to 36 ins.	52.50	500.00
<i>Juniperus excelsa stricta</i> , 18 to 24 ins.	25.00	225.00
<i>Juniperus excelsa stricta</i> , 24 to 30 ins.	30.00	275.00
<i>Juniperus virginiana canaerli</i> , 4 to 5 ft.	62.50	600.00
<i>Taxus brevifolia nana</i> (dwarf), 12 to 15 ins.	35.00	325.00
15 to 18 ins.	42.50	400.00
18 to 24 ins.	47.50	450.00
<i>Taxus cuspidata</i> (spreading), 15 to 18 ins.	45.00	425.00
<i>Taxus cuspidata</i> (spreading), 18 to 24 ins.	52.50	500.00
<i>Taxus cuspidata capitata</i> (sheared upright), 4 to 4½ ft.	175.00	1,500.00
<i>Taxus cuspidata capitata</i> (sheared upright), 4½ to 5 ft.	225.00	2,000.00
<i>Taxus densiformis</i> (spreading), 15 to 18 ins.	47.50	450.00
18 to 24 ins.	52.50	500.00
24 to 30 ins.	62.50	600.00
<i>Taxus Halloran</i> (upright), 18 to 24 ins.	50.00	475.00
<i>Taxus hatfieldi</i> , 18 to 24 ins.	50.00	475.00
<i>Taxus hatfieldi</i> , 24 to 30 ins.	55.00	525.00
<i>Taxus hicksii</i> , 18 to 24 ins.	50.00	475.00
<i>Taxus thayeri</i> (spreading), 24 to 30 ins.	60.00	.....
<i>Taxus thayeri</i> (spreading), 30 to 36 ins.	70.00	.....

DECIDUOUS SHRUBS

Almond, Pink-flowering (own root), 2 to 3 ft.	5.00	45.00
Barberry, Redleaf, 12 to 15 ins., 3-yr., T.	3.50	30.00
15 to 18 ins., 3-yr., T.	4.50	40.00
18 to 24 ins., 3-yr., T.	5.50	50.00
<i>Cornus florida rubra</i> (Pink Dogwood), 18 to 24 ins.	13.50	125.00
<i>Cornus florida rubra</i> (Pink Dogwood), 2 to 3 ft.	17.50	150.00
<i>Cotoneaster acutifolia</i> , 18 to 24 ins., T.	2.50	20.00
<i>Cotoneaster acutifolia</i> , 2 to 3 ft., T.	3.00	25.00
<i>Cydonia japonica</i> , 18 to 24 ins.	3.50	30.00
<i>Cydonia japonica</i> , 2 to 3 ft.	4.50	40.00
<i>Cydonia japonica</i> (upright red), 18 to 24 ins.	4.50	40.00
<i>Cydonia japonica</i> (upright red), 2 to 3 ft.	5.50	50.00
<i>Deutzia gracilis</i> , 12 to 15 ins.	4.50	40.00
<i>Deutzia gracilis</i> , 15 to 18 ins.	4.50	40.00
<i>Deutzia gracilis rosea</i> , 12 to 15 ins.	4.50	40.00
<i>Deutzia gracilis rosea</i> , 15 to 18 ins.	4.50	40.00
<i>Deutzia crenata</i> or <i>Pride of Rochester</i> , 2 to 3 ft.	3.50	30.00
<i>Deutzia crenata</i> or <i>Pride of Rochester</i> , 3 to 4 ft.	4.00	35.00
<i>Forsythia spectabilis</i> , 2 to 3 ft.	4.00	35.00
<i>Forsythia spectabilis</i> , 3 to 4 ft.	4.50	40.00
Honeysuckle:		
(Morrowi, Pink Tatarian, Red Tatarian, White Tatarian), 2 to 3 ft.	3.50	30.00
3 to 4 ft.	4.00	35.00
<i>Philadelphus virginialis</i> , 18 to 24 ins., heavy.	3.00	25.00
<i>Philadelphus virginialis</i> , 2 to 3 ft., heavy.	3.50	30.00

Privet Amur River North,

2-yr., 12 to 18 ins., 3 br. and up.	(\$100.00 per 1000)	1.40	12.00
2-yr., 18 to 24 ins., 3 br. and up.	(120.00 per 1000)	1.50	14.00
3-yr., 2 to 3 ft., extra-heavy, T.	(150.00 per 1000)	2.00	17.50
3-yr., 3 to 4 ft., extra-heavy, T.	(175.00 per 1000)	2.25	20.00
(Onarga Grown)			

<i>Weigela rosea</i> , 2 to 3 ft.	4.50	40.00
<i>Weigela rosea</i> , 3 to 4 ft.	5.50	50.00

SHADE TREES

Elm, Chinese, 1 to 1¼-in. cal.	14.00	125.00
Elm, Chinese, 1½ to 1¾-in. cal.	22.50	200.00
Maple, Soft, 8 to 10 ft.	17.50	165.00
Maple, Soft, 10 to 12 ft.	20.00	190.00

LINING-OUT SHRUBS

	Per 100	Per 1000
Barberry, Thunberg (Green), 2-yr., 9 to 12 ins., S.	\$ 6.50	\$ 60.00
Barberry, Redleaf, 2-yr., 9 to 12 ins., S.	9.50	90.00
<i>Euonymus alatus compactus</i> , 2-yr., 8 to 12 ins., T.	27.50	250.00
<i>Philadelphus virginialis</i> , 12 to 18 ins.	14.00	120.00
<i>Rhodotypos kerrioides</i> (White Kerria), 6 to 12 ins., S.	12.00	100.00



Prices F.O.B. Onarga, Illinois. Packing additional at cost.

Office and storage located at Onarga, Illinois.

leaves, which rival the so-called dusty millers in their whiteness, making it a year-round ornament of great value. The plant is a non-spreader, making tufts of foliage four or five inches tall and seldom more than that in diameter.

Of course, *A. sancti-johannis* should not be overlooked in any appraisal of the marguerites, but it was discussed in a recent issue and need not be repeated now.

What Is a Scree?

An eastern reader writes as follows: "I am all confused by what I read in amateur garden magazines about screes and moraines. Could you supply a note on the subject?" This may seem unimportant to those who have not given alpine gardening any thought, but it is essential that the terms be correctly understood, if one is to receive the full benefit of these contrivances in his work.

My personal understanding of the matter may be stated as follows: A scree is the pile of broken rocks, with perhaps a little soil and vegetable mold, which accumulate at the base of a cliff and receive no moisture but the normal quantity of rainfall for the locality. On the other hand, a moraine is the mass of crushed rocks which collects at the lower end and sides of a glacier, through which cold water from the melting ice constantly flows. These definitions are perhaps not stated in the precise words of the geologist, but they will no doubt make the matter clear. Moraine conditions may be approximated in the garden (for years we operated one in this garden from the overflow of a pool, with most satisfactory results), but the whole setup is so fussy and complicated that it is not likely ever to become popular in this country. However, a scree is easily constructed, requires little maintenance labor or expense and furnishes a home for a long list of alpine plants which can be grown in the open in our trying northern Michigan climate under no other conditions with so much satisfaction.

A good scree mixture, which we have used repeatedly in our work, was copied from "The New Flora and Sylva" years ago. It may be made as follows: Two parts of leaf-mold, two parts of sand and one part of garden loam. One part of this mixture is added to five parts of crushed rock to form the scree. The crushed stone should be of different sizes and of a porous nature. It may be replaced by cinders or crushed

Fall, 1954—LINING-OUT STOCK—Spring, 1955

	Each	Each		Each	Each		Each	Each
	per	per		per	per		per	per
Azalea Ghent (pontica).			Juniper, Andorra (Purple Andorra Juniper).			Rhododendron carolinianum		
2-yr., field bed, T.....	\$0.20	\$0.18	4 to 6 ins., 1-yr., T.....	\$0.22	\$0.20	(Carolina Rhododendron), 100	1000	
3 to 5 ins., 3-yr., T.....	.28	.25	6 to 8 ins., 1-yr., T.....	.28	.25	2-yr., T., field bed.....	\$0.28	...
5 to 8 ins., 3-yr., T.....	.35	.32	8 to 10 ins., 2-yr., T.....	.35	.32	3-yr., T., field bed.....	.35	...
8 to 10 ins., 4-yr., T.....	.55	.50	10 to 12 ins., 3-yr., T.....	.45	.42	Rhododendron catawbiense.		
10 to 12 ins., 4-yr., T.....	1.00	...	Juniperus canadensis aurea			Reddish-purple,		
Azalea kaempferi (Torch Azalea).			(Golden Canadian Juniper).			seedling-grown,		
Mixed colors.			4 to 8 ins., 1-yr., T.....	.25	...	2-yr., T., field bed.....	.30	...
2-yr., field bed, T.....	.28	.25	Juniperus glauca hetzi			3 to 5 ins., 3-yr., T.....	.45	...
Azalea mollis (Chinese Azalea).			(Hetz Juniper).			5 to 8 ins., 4-yr., T.....	.55	...
Flame shades, mixed.			6 to 8 ins., 1-yr., T.....	.28	.25	Rhododendron hybrid.		
3 to 6 ins., 2-yr., T.....	.18	.16	8 to 10 ins., 2-yr., T.....	.35	.32	Various		
6 to 8 ins., 2-yr., T.....	.25	.22	10 to 12 ins., 3-yr., T.....	.45	.42	colors, from red plants.		
8 to 10 ins., 3-yr., T.....	.45	.42	12 to 15 ins., 3-yr., T.,			Seedling-grown, very		
10 to 12 ins., 3-yr., T.....	.65	.60	cut back.....	.55	.50	hardy.		
12 to 15 ins., 4-yr., T.....	1.35	...	15 to 18 ins., 4-yr., T.....	.70	...	2-yr., T., field bed.....	.35	\$0.32
Azalea poukhanensis.			Juniperus communis hibernica			3 to 5 ins., T.....	.45	...
lavender shades.			(Irish Juniper).			5 to 8 ins., T.....	.35	...
3-yr., field bed, T.....	.35	.32	8 to 10 ins., 2-yr., T.....	.35	.32	8 to 10 ins., T.....	.35	...
Azalea schlippenbachii.			10 to 12 ins., 2-yr., T.....	.40	.38	Rhus cotinus (Smoke Tree).		
Bright, pink blossoms.			12 to 15 ins., 3-yr., T.,			10 to 12 ins., 3-yr., T.....	.18	.15
2-yr., field bed, T.....	.28	.25	cut back.....	.45	.42	12 to 15 ins., 4-yr., T.....	.25	.22
Buxus sempervirens wilei			15 to 18 ins., 3-yr., T.....	.55	.50	Taxus cuspidata (Spreading Yew).		
(Weller's Hardy Boxwood).			Juniperus com. hibernica fastigiata			5 to 8 ins., 1-yr., T.....	.25	.22
1-yr., field bed, T.....	.22	.20	(Compact Irish Juniper).			8 to 10 ins., 2-yr., T.....	.35	.32
4 to 6 ins., 2-yr., T.....	.28	.25	8 to 10 ins., 2-yr., T.....	.35	.32	10 to 12 ins., 3-yr., T.....	.45	...
6 to 8 ins., 2-yr., T.....	.35	.32	10 to 12 ins., 2-yr., T.....	.42	.40	Taxus media hicksii		
8 to 10 ins., 3-yr., T.....	.45	...	12 to 15 ins., 3-yr., T.....	.48	.45	(Hicks' Yew).		
Chamaecyparis filifera aurea			15 to 18 ins., 3-yr., T.,			6 to 8 ins., 1-yr., T.....	.28	.26
(Golden Thread Cypress).			cut back.....	.55	.50	8 to 10 ins., 2-yr., T.....	.38	.36
6 to 8 ins., 1-yr., T.....	.30	.28	Juniperus pfitzeriana compacta			10 to 12 ins., 3-yr., T.....	.45	...
Chamaecyparis lawsoniana aurea			(Nelson variety). Compact-			12 to 15 ins., 4-yr., T.....	.38	.35
(Golden Lawson Cypress).			ly growing, gray-blue			15 to 18 ins., 4-yr., T.....	.45	.43
10 to 12 ins., 3-yr., T.....	.45	.42	pfitzer. Shears compactly			18 to 24 ins., 5-yr., T.....	.55	.50
12 to 15 ins., 3-yr., T.....	.55	.50	and develops quickly with			Thuja occ. douglasii aurea		
Chamaecyparis lawsoniana altum.			good, fibrous roots.			(Golden Arb.)		
Columnar, blue.			3 to 5 ins., 1-yr., T.....	.25	.22	4 to 6 ins., 1-yr., T.....	.25	.23
6 to 8 ins., 1-yr., T.....	.25	.22	5 to 8 ins., 1-yr., T.....	.35	.32	6 to 8 ins., 1-yr., T.....	.30	.28
8 to 10 ins., 1-yr., T.....	.30	.28	8 to 10 ins., 2-yr., T.....	.45	...	8 to 10 ins., 2-yr., T.....	.35	.32
10 to 12 ins., 2-yr., T.....	.35	.32	Juniperus pfitzeriana aurea			8 to 10 ins., 3-yr., T.....	.45	.42
12 to 15 ins., 3-yr., T.....	.45	.42	(Golden Pfitzer Juniper).			Thuja occ. elegantissima lutea		
Chamaecyparis plumosa aurea			4 to 6 ins., 1-yr., T.....	.25	.22	(Geo. Peabody Arb.)		
(Golden-plumed Cypress).			6 to 8 ins., 1-yr., T.....	.30	.28	3 to 6 ins., 1-yr., T.....	.25	.22
6 to 8 ins., 1-yr., T.....	.25	.22	8 to 10 ins., 2-yr., T.....	.35	...	6 to 8 ins., 1-yr., T.....	.30	.28
6 to 8 ins., 2-yr., T.....	.35	.32	Juniperus stricta			6 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40	(Spiny Greek Juniper).			8 to 10 ins., 3-yr., T.....	.40	.38
Chamaecyparis squarrosa.			3 to 6 ins., 1-yr., T.....	.28	.26	10 to 12 ins., 3-yr., T.....	.45	.42
Mossy, green foliage.			6 to 8 ins., 1-yr., T.....	.35	.32	Thuja occ. globosa		
5 to 8 ins., 1-yr., T.....	.30	.28	Juniperus squamata meyeri			(Woodward Globe Arb.)		
Chamaecyparis thyoides.			(Meyer Juniper).			6 to 8 ins., 1-yr., T.....	.25	...
6 to 8 ins., 1-yr., T.....	.25	.23	3 to 5 ins., 2-yr., T.....	.28	...	8 to 10 ins., 2-yr., T.....	.35	.32
Enonymus fortunei caerulei.			5 to 8 ins., 2-yr., T.....	.35	...	10 to 12 ins., 3-yr., T.....	.45	...
Semievergreen, dwarf.			8 to 10 ins., 2-yr., T.....	.45	...	Thuja occ. plicata douglasii		
4 to 6 ins., 1-yr., T.....	.18	.16	Juniperus virginiana (Red Cedar).			(Giant Arb.)		
6 to 8 ins., 1-yr., T.....	.22	.20	8 to 10 ins., 3-yr., T.....	.15	...	6 to 8 ins., 1-yr., T.....	.22	.20
8 to 10 ins., 2-yr., T.....	.30	.28	10 to 15 ins., 3-yr., T.....	.20	...	6 to 8 ins., 2-yr., T.....	.30	.28
10 to 15 ins., 3-yr., T.....	.35	.32	Koeleria paniculata			8 to 10 ins., 3-yr., T.....	.38	.36
Enonymus fortunei coloratus.			(Golden-rain Tree).			Thuja occ. pyramidalis		
Procumbent, broad-leaved			8 to 12 ins., 3-yr., T.....	.18	.16	(Pyramidal Arb.)		
creeper.			12 to 18 ins., 3-yr., T.....	.22	.20	6 to 8 ins., 1-yr., T.....	.28	.26
6 to 8 ins., 1-yr., T.....	.16	.14	18 to 24 ins., 3-yr., T.....	.30	.28	8 to 10 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 2-yr., T.....	.25	.22	Pieris floribunda			10 to 12 ins., 3-yr., T.....	.45	.42
10 to 15 ins., 3-yr., T.....	.35	.32	(Mountain Andromeda).			12 to 15 ins., 3-yr., T.....	.55	...
Enonymus radicans coloratus.			3 to 6 ins., 2-yr., T.....	.28	.26	Tsuga canadensis (Hemlock).		
Small-leaved, procumbent			6 to 8 ins., 3-yr., T.....	.35	.32	Grown from seed, not		
creeper.			Larix leptolepis (Japanese Larch).			collected plants.		
6 to 8 ins., 1-yr., T.....	.16	.14	10 to 18 ins., 3-yr., T.....	.18	.15	5 to 8 ins., 3-yr., T.....	.25	.22
8 to 10 ins., 2-yr., T.....	.22	.20	18 to 24 ins., 4-yr., T.....	.25	.20	8 to 10 ins., 4-yr., T.....	.35	.32
10 to 15 ins., 3-yr., T.....	.28	.26	Leucothoe catesbaei			10 to 12 ins., 4-yr., T.....	.45	.40
Enonymus fortunei erectus			(Drooping Leucothoe).			Viburnum opulus (Snowball).		
(Bigleaf Wintercreper).			4 to 6 ins., 2-yr., T.....	.20	.18	Red berries, fall.		
6 to 8 ins., 1-yr., T.....	.18	.16	6 to 8 ins., 2-yr., T.....	.28	.25	6 to 10 ins., 2-yr., T.,		
8 to 10 ins., 2-yr., T.....	.22	.20	8 to 10 ins., 3-yr., T.....	.35	.32	cut back.....	.12	.10
10 to 12 ins., 3-yr., T.....	.28	.25	10 to 12 ins., 3-yr., T.....	.45	...	cut back.....	.18	.16
12 to 15 ins., 3-yr., T.....	.35	.32	Liquidambar styraciflua			Viburnum opulus nana		
15 to 18 ins., 4-yr., T.....	.45	...	(Sweet Gum).			(Dwarf Bush Cranberry).		
Enonymus radicans vegetus			1-yr., S., field bed.....	.10	.08	A very good dwarf sort.		
(Evergreen Wintercreper).			3 to 12 ins., 2-yr., T.....	.15	.12	Grows slowly and compact.		
6 to 8 ins., 1-yr., T.....	.18	.16	Mahonia aquifolium (Oregon			Very hardy.		
8 to 10 ins., 2-yr., T.....	.25	.23	Holly-grape).			1-yr., field bed, T.....	.18	.16
10 to 12 ins., 3-yr., T.....	.35	.32	3 to 5 ins., 2-yr., T.....	.18	.16	3-yr., field bed, T.....	.35	...
12 to 15 ins., 3-yr., T.....	.45	.40	5 to 10 ins., 3-yr., T.....	.25	.22	FINISHED NURSERY STOCK		
10 to 12 ins., 3-yr., T.....	.70	...	Picea excelsa (Norway Spruce).			Priced in the Ground.		
Hex crenata (Japanese Holly).			8 to 10 ins., 3-yr., T.....	.15	...	Customer Digs		
Pyramidal.			10 to 12 ins., 4-yr., T.....	.20	.18	Each		
4 to 6 ins., 1-yr., T.....	.20	.18	12 to 15 ins., 4-yr., T.....	.35	.32	per		
6 to 8 ins., 1-yr., T.....	.25	.23	Picea pungens glauca			10		
8 to 10 ins., 2-yr., T.....	.35	.32	(Colorado Blue Spruce).			Tsuga canadensis (Hemlock).		
10 to 12 ins., 3-yr., T.....	.55	.50	4 to 6 ins., 3-yr., T.....	.20	.18	3 to 4 ft.....	\$2.50	...
Hex crenata convexa (bullata)			6 to 8 ins., 4-yr., T.....	.28	.26	4 to 5 ft.....	3.25	...
(Boxleaf Holly).			Pieris japonica			5 to 6 ft.....	3.75	...
4 to 6 ins., 1-yr., T.....	.20	.16	(Japanese Andromeda).			Taxus cuspidata (Upright Yew).		
6 to 8 ins., 1-yr., T.....	.25	.23	3 to 6 ins., 2-yr., T.....	.25	.23	3 to 4 ft.....	8.00	...
8 to 10 ins., 2-yr., T.....	.35	.32	6 to 8 ins., 3-yr., T.....	.32	.30	4 to 5 ft.....	9.50	...
10 to 12 ins., 3-yr., T.....	.45	.40	8 to 10 ins., 3-yr., T.....	.45	.42	Thuja occidentalis		
12 to 15 ins., 3-yr., T.....	.70	...	10 to 12 ins., 4-yr., T.....	.65	...	(American Arborvitae).		
Hex crenata helleri (Heller's			Pinus mugho (Dwarf Mugho Pine).			5 to 6 ft.....	3.00	...
Dwarf Holly).			4 to 6 ins., 3-yr., T.....	.18	.16	6 to 7 ft.....	3.75	...
1-yr., field bed, T.....	.18	.16	6 to 8 ins., 4-yr., T.....	.22	.20	7 to 8 ft.....	4.50	...
Hex glabra (Inkberry).			Pinus nigra (Austrian Pine).			8 to 10 ft.....	5.25	...
8 to 15 ins., 2-yr., T.....	.35	...	3 to 5 ins., 3-yr., S.....	.10	.08	TERMS:		
Hex opaca femina (American			5 to 10 ins., 4-yr., T.....	.18	.16	Cash with order—free pack-		
Holly, Female).			Pinus strobus			ing; otherwise, 1/3 deposit with order		
1-yr., field bed, T.....	.35	...	(Eastern White Pine).			and balance C.O.D. and packing at cost.		
Hex rotundifolia (Roundleaf			4 to 8 ins., 3-yr., T.....	.15	...	All shipments by railway express.		
Japanese Holly).			Pyraeantha coccinea inlandi					
3 to 6 ins., 1-yr., T.....	.30	.18	(Firethorn).					
6 to 8 ins., 1-yr., T.....	.30	.28	6 to 8 ins., 2-yr., T.....	.25	.23			
8 to 10 ins., 2-yr., T.....	.45	.40	8 to 12 ins., 3-yr., T.....	.32	.30			
12 to 18 ins., 3-yr., T.....	.75	.70						

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	Per 100	Per 1000
<i>Taxus media</i> Adams, 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	\$16.00	\$150.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media andersoni</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media browni</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	18.00	160.00
<i>Taxus cusp. capitata</i> S., 3-yr., 2 1/4-in. r. pots, 3 to 6 ins.	22.50	200.00
3-yr., 2 1/4-in. r. pots, 4 to 8 ins.	27.50	250.00
3-yr., 2 1/2-in. r. pots, 6 to 12 ins.	30.00	275.00
<i>Taxus media capitata</i> , c.g.,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus cuspidata</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media hatfieldi</i> No. 18,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> No. 18,		
2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	25.00	225.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media hicksi</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media Moon's</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media thayerae</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus cuspidata vermeuleni</i> ,		
2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	25.00	200.00
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Taxus media wellesleyana</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus Andorra compacta</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Juniperus communis depressa aurea</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 8 ins.	20.00	180.00
<i>Juniperus fastigiata</i> , Irish,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	25.00	225.00
2-yr., 2 1/4-in. r. pots, 6 to 8 ins.	30.00	275.00
<i>Juniperus chinensis pfitzeriana glauca</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	27.50	250.00
<i>Thuja occidentalis elegantissima</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	18.00	160.00
<i>Thuja occidentalis pyramidalis</i> ,		
1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis wareana</i> (Siberian),		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis woodwardi</i> ,		
1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Ilex convexa</i> (bullata), 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Ilex glabra</i> , 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> ,		
1-yr., 2 1/2-in. r. pots, 6 to 8 ins.	22.50	200.00
<i>Ilex crenata Stokes</i> (Pat. 887),		
2-yr., 2 1/4-in. r. pots, 2 to 4 ins.	35.00	300.00

The above only a partial list of our potted lining-out stock. We also grow seedlings and field liners. A complete catalog on request.

HEASLEY'S NURSERIES

Freeport Rd.

BUTLER, PA.

bricks if a porous rock is not available. A scree should not be less than 18 inches in depth, or better yet, two feet.

Bellflowers for Cutting

A recent inquiry on campanulas for cutting prompts a brief note on the *Campanula glomerata* group in general. The connection between cutting material and *C. glomerata* is logical, of course, because it is one of the few bellflowers that can be cut with any degree of satisfaction. The genus as a whole, then, may be ignored by the grower of cut flowers. *Campanula persicifolia* in its various forms and a few others with similar flowering habits are exceptions to the general rule. In addition to the peach-leaved varieties, the glomerata varieties, especially the taller-growing kinds, such as *C. glomerata dahurica*, have special merit. The last-named is taller than the type and attains a foot and a half under good treatment. Its rich purple flowers in terminal and axillary clusters (hence glomerata), three inches or more across, may be cut with long stems and last well in water. This clustering of the flowers is one feature that makes for good cutting.

The culture of all the glomerata plants, including *C. glomerata acaulis*, a plant of three inches which is especially suited to rock garden planting, is simple. They all come readily from seeds and grow easily in almost any sunny or slightly shaded situation that is well drained. To preserve the vigor of the plant, length of stem and size of flower in the cut flower varieties, it is well to break up the compact clump of roots every two or three years.

Primula Sieboldi

Siebold's primrose is highly variable as to size of leaf, length of flower stem and color of flower. That variability has given rise to a strain usually referred to as sieboldi hybrids. This strain contains myriad shades of pink, rose, purple and white. As one would expect from such a conglomeration, there are generally several plants of poor colors, especially in the rosy-purple section, in every batch of seedlings. The majority should, however, be so outstandingly good that the few poor plants would be small loss.

When grown at all, sieboldi is usually propagated from seeds. These should be sown as soon as ripe to obtain the best germination, for even year-old seeds may take a year or more to come up, and then only

RA·PID·GRO

The Double Profit Plant Food



Rose on left was Ra-Pid-Gro fed.



This dispensing display sells Ra-Pid-Gro for you!

PROFIT NO. 1

USE IT!

Nurserymen who *use* Ra-Pid-Gro know well that it produces:

1. Healthier stock.
2. More salable stock.
3. Far fewer replacements.
4. Properly timed blooms.

PROFIT NO. 2

SELL IT!

Nurserymen who *sell* Ra-Pid-Gro know well that it produces:

1. Satisfied customers.
2. Repeat business.
3. Greater sales volume.
4. Extra profit.

USE RA-PID-GRO — AND SELL IT FOR SATISFIED CUSTOMERS

Imitation is the Sincerest Flattery.

*They say money is the root of all evil
and it is sometimes the reason for substitution.*

Stock up on Ra-Pid-Gro NOW!

ANALYSIS 23-21-17

RA·PID·GRO

CORP., DANSVILLE, N. Y.

THE MIRACLE LIQUID PLANT FOOD

EVERGREEN GRAFTS

For many years we have made evergreen grafts for our own planting. With our greatly expanded propagating facilities, we are now able to offer them to the trade. We have employees who are skilled in this art; so you will be pleased with our grafts.

JUNIPERUS (Juniper)

Juniperus virginiana understock..... 2 1/4-in. pots

Chinensis Columnaris, Blue
Chinensis Columnaris, Green

Kosteriana Plumosa
Scopulorum, Select Blue

Scopulorum, Chandler
Scopulorum, Crawford
Scopulorum Horizontalis
Scopulorum Pathfinder

Scopulorum Platinum (Pat. No.
1070) at \$1.00 each

Scopulorum, Sutherland
Virginiana Burki
Virginiana Canaerti
Virginiana Cupressifolia
Virginiana Hilli
Virginiana Keteleeri

THUJA (Arborvitae)

Thuja orientalis understock..... 2 1/4-in. pots

Aurea Nana
Aurea Nana, Dwarf
Bonita

Crawford's Compact
Excelsa

CUPRESSUS (Cypress)

Thuja orientalis understock..... 2 1/4-in. pots

Arizonica (hardy at Ottawa for many years)

50c each in lots of 300 or more

55c each in lots of less than 300

THE WILLIS NURSERY CO.

Your Wholesale Nurserymen

OTTAWA, KANSAS

a small portion of the sowing is likely to show up. A better way, according to experience here, is to save selected plants, such as the large-flowered (two inches or more across) white and the better shades of pink, and grow them from divisions.

There is a phase of the hardy primrose business — pot culture — that is often overlooked by growers of hardy plants. Our present plant is, incidentally, admirably adapted to forcing in late winter and early spring. At any rate, we found years ago that a large, white-flowered one that we reproduced vegetatively was a splendid seller as a pot plant at Eastertime, and we had no trouble selling all the plants that we could produce to local florists. If you want to produce your stock from seeds, plant them as soon as ripe in an outdoor frame and grow them along in your usual way. They should be large enough to force the second winter. The fall before they are to be used they should be heeled in, in a protected frame, or potted up and put in a similar place, where they will be available when wanted in winter. They may then be introduced into a coolhouse and handled like other hardy primroses.

A SEVERE wind and rain storm last month caused extensive damage at Cashman Greenhouses, Inc., a subsidiary of the Sherman Nursery Co., at Charles City, Ia. One end of a greenhouse was blown out, and approximately 500 panes of glass were broken.

A COURSE in the care of trees, evergreens and shrubs will be held as part of the adult education program at Maine Township high school, Des Plaines, Ill., beginning October 7 for six weeks. Archibald Enoch Price, arborist, Glenview, Ill., will be the instructor.

GEORGE ROSE, of Henry Field Seed & Nursery Co., Shenandoah, Ia., has returned from a flying trip through the west to inspect the firm's plantings. He, along with Mrs. Rose, made 12 stops in Wyoming, Washington, California and Arizona.

MANCILL ALLEN, Mancill Allen Nursery, Houston, Tex., will build a modern 6-story office building costing in excess of \$1,000,000 on the site where his nursery has been located since 1942.

ROYALVALE NURSERY, LTD., Montreal, Que., is erecting a new greenhouse behind the delivery room.

LINERS

	Per 100	Per 1000
Tsuga canadensis, 6 to 8 ins., heavy transplants.....	\$30.00	\$250.00
Rhododendron catawbiense, 8 to 10 ins., heavy trans..	90.00	.....
Rhododendron maximum, 8 to 10 ins., heavy trans....	60.00	.....

NURSERY-GROWN

Tsuga canadensis
Rhododendron maximum
Rhododendron catawbiense
Gleditsia triacanthos
Pinus strobus and resinosa

COLLECTED

Rhododendron maximum
Azalea nudiflora
Kalmia latifolia
Acer rubrum and sacc.
Quercus borealis
and many other items

Write for Price List.

CURTIS NURSERIES, INC., CALICOON, N. Y.

20 MILLION TREES

Now Shipping

	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
SCOTCH PINE (Riga)								
2-yr., S., (2-0), 2 to 4 ins.	\$ 3.00	\$ 15.00						
3-yr., S., (3-0), 5 to 9 ins.	7.00	35.00						
SCOTCH PINE, Special Strain								
2-yr., S., (2-0), 4 to 8 ins.	5.00	25.00						
2-yr., S., (2-0), 5 to 10 ins.	7.00	35.00						
3-yr., S., (3-0), 8 to 12 ins.	12.00	60.00						
4-yr., T., (2-2), 6 to 12 ins.	20.00	150.00						
AUSTRIAN PINE								
2-yr., S., (2-0), 2 to 4 ins.	5.00	25.00						
2-yr., S., (2-0), 3 to 5 ins.	6.00	30.00						
3-yr., S., (3-0), 6 to 12 ins.	8.00	40.00						
3-yr., S., (3-0), 8 to 14 ins.	10.00	50.00						
3-yr., T., (2-1), 5 to 10 ins.	15.00	75.00						
WHITE PINE								
2-yr., S., (2-0), 3 to 6 ins.	4.00	20.00						
2-yr., S., (3-0), 5 to 10 ins.	6.00	30.00						
4-yr., T., (3-1), 5 to 10 ins.	12.00	60.00						
AMERICAN RED PINE								
2-yr., S., (2-0), 3 to 5 ins.	5.00	25.00						
3-yr., S., (3-0), 8 to 12 ins.	10.00	50.00						
3-yr., T., (2-1), 4 to 8 ins.	13.00	65.00						
JAPANESE BLACK PINE (Thunbergii)								
2-yr., S., (2-0), 2 to 4 ins.	7.00	35.00						
3-yr., S., (3-0), 7 to 12 ins.	10.00	50.00						
MUGHO PINE, True Dwarf								
2-yr., S., (2-0), 2 to 3 ins.	5.00	25.00						
3-yr., S., (3-0), 4 to 6 ins.	7.00	35.00						
4-yr., S., (4-0), 6 to 10 ins.	10.00	50.00						
4-yr., T., (3-1), 4 to 7 ins.	15.00	75.00						
5-yr., T., (3-2), 6 to 12 ins.	20.00	100.00						
PONDEROSA PINE								
3-yr., S., (3-0), 5 to 10 ins.	6.00	30.00						
WHITE SPRUCE								
2-yr., S., (2-0), 4 to 8 ins.	5.00	25.00						
4-yr., T., (2-2), 10 to 16 ins.	20.00	100.00						
SERBIAN SPRUCE (Picea omorika)								
2-yr., S., (2-0), 2 to 4 ins.	8.00	40.00						
2-yr., S., (2-0), 4 to 8 ins.	12.00	60.00						
BLACK HILLS SPRUCE								
3-yr., S., (3-0), 2 to 6 ins.	5.00	25.00						
4-yr., S., (4-0), 6 to 12 ins.	12.00	60.00						
MUSSER EXCLUSIVE NORWAY SPRUCE								
2-yr., S., (2-0), 5 to 10 ins.	7.00	35.00						
3-yr., S., (3-0), 10 to 16 ins.	10.00	50.00						
3-yr., T., (2-1), 6 to 12 ins.	13.00	65.00						
5-yr., T., (3-2), 10 to 18 ins.	30.00	150.00						
NORWAY SPRUCE								
2-yr., S., (2-0), 2 to 3 ins.	3.20	16.00						
3-yr., S., (3-0), 6 to 12 ins.	7.00	35.00						
4-yr., T., (3-1), 4 to 12 ins.	12.00	60.00						
5-yr., T., (3-2), 6 to 12 ins.	20.00	100.00						
ENGELMANN BLUE SPRUCE								
2-yr., S., (2-0), 2 to 4 ins.	5.00	25.00						
COLORADO BLUE SPRUCE								
2-yr., S., (2-0), 2 to 4 ins.	\$ 5.00	\$ 25.00						
2-yr., S., (2-0), 3 to 6 ins.	7.00	35.00						
3-yr., S., (3-0), 5 to 10 ins.	12.00	60.00						
3-yr., T., (2-1), 4 to 7 ins.	15.00	75.00						
4-yr., T., (2-2), 6 to 10 ins.	20.00	100.00						
4-yr., T., (2-2), 8 to 12 ins.	30.00	150.00						
DOUGLAS FIR								
2-yr., S., (2-0), 4 to 8 ins.	8.00	40.00						
4-yr., T., (2-2), 4 to 8 ins.	15.00	75.00						
CONCOLOR FIR								
2-yr., S., (2-0), 5 to 10 ins.	12.00	60.00						
3-yr., S., (3-0), 8 to 14 ins.	17.00	85.00						
BALSAM FIR								
3-yr., S., (3-0), 3 to 5 ins.	8.00	40.00						
5-yr., T., (3-2), 5 to 10 ins.	17.00	85.00						
VEITCH FIR								
3-yr., S., (3-0), 3 to 6 ins.	16.00	80.00						
BLUE ATLAS CEDAR (Cedrus atlantica glauca)								
2-yr., S., (2-0), 6 to 12 ins.	15.00	100.00						
CANADIAN HEMLOCK								
2-yr., S., (2-0), 3 to 6 ins.	10.00	50.00						
3-yr., S., (3-0), 6 to 12 ins.	16.00	80.00						
WOODWARD GLOBE ARBORVITAE, dark green								
1-yr., T., 4 to 6 ins.	30.00	250.00						
HOVEY'S GOLDEN ARBORVITAE								
1-yr., T., 4 to 6 ins.	30.00	250.00						
2-yr., T., sheared back to 6 to 8 ins., heavy stems.	40.00	350.00						
ORIENTAL ARBORVITAE (Biota orientalis)								
2-yr., S., (2-0), 5 to 10 ins.	6.00	30.00						
2-yr., S., (2-0), 10 to 15 ins.	10.00	50.00						
AMERICAN ARBORVITAE								
3-yr., S., (3-0), 5 to 10 ins.	7.00	35.00						
PYRAMIDAL ARBORVITAE (Compacta), light green								
1-yr., T., 4 to 6 ins.	25.00	200.00						
2-yr., T., 8 to 15 ins., heavy stems	35.00	300.00						
PYRAMIDAL ARBORVITAE (Nigra), dark green								
2-yr., T., 8 to 12 ins., heavy stems	35.00	300.00						
PFITZER JUNIPER, green								
1-yr., T., 4 to 6 ins.	40.00	300.00						
PFITZER JUNIPER (Glaucia), spreading, bluish								
1-yr., T., 6 to 8 ins.	25.00	200.00						
ANDORRA JUNIPER								
1-yr., T., 4 to 6 ins.	25.00	200.00						
WAUKEGAN JUNIPER, green								
1-yr., T., 6 to 10 ins.	30.00	250.00						
WAUKEGAN JUNIPER, blue								
1-yr., T., 6 to 10 ins.	\$30.00	\$250.00						
UPRIGHT JUNIPER (Virginiana)								
2-yr., S., (2-0), 5 to 9 ins.	6.00	30.00						
3-yr., S., (3-0), 8 to 18 ins.	8.00	40.00						
JAPANESE YEW (Taxus cuspidata capitata), upright, pyramidal								
2-yr., S., (2-0), 4 to 7 ins.	15.00	125.00						
3-yr., S., (3-0), 6 to 12 ins.	30.00	250.00						
JAPANESE YEW TRANSPLANTS								
Taxus cuspidata, spreading								
1-yr., T., 5 to 6 ins.	20.00	150.00						
2-yr., T., 6 to 8 ins.	30.00	250.00						
Taxus hicksii, upright								
1-yr., T., 5 to 7 ins.	20.00	175.00						
Taxus hunnewelliana, excellent spreader								
1-yr., T., 5 to 7 ins.	25.00	200.00						
Taxus brownii, upright								
1-yr., T., 4 to 6 ins.	20.00	175.00						
BARBERRY, green								
2-yr., S., (2-0), 8 to 12 ins.	8.00	40.00						
BARBERRY, red								
2-yr., S., (2-0), 4 to 10 ins.	10.00	50.00						
3-yr., S., (3-0), 8 to 15 ins.	16.00	80.00						

HARDWOOD SEEDLINGS

	Per 100	Per 1000
WHITE DOGWOOD (Cornus florida)		
1-yr., S., (1-0), 6 to 9 ins.	\$ 9.00	\$ 45.00
2-yr., S., (2-0), 10 to 16 ins.	15.00	75.00
(2-0), 16 to 24 ins.	18.00	90.00
PIN OAK, (Quercus palustris)		
2-yr., S., (2-0), 15 to 20 ins.	15.00	100.00
NORWAY MAPLE (Acer platanoides)		
1-yr., S., (1-0), 6 to 10 ins.	9.00	45.00
2-yr., S., (2-0), 10 to 15 ins.	14.00	70.00
TULIP TREE (Liriodendron tulipifera)		
2-yr., S., (2-0), 18 to 30 ins.	9.00	45.00
SILVER MAPLE (Acer saccharinum)		
2-yr., S., (2-0), 18 to 30 ins.	9.00	45.00
NORTHERN RED OAK (Quercus borealis)		
2-yr., S., (2-0), 10 to 18 ins.	12.00	60.00
FLOWERING QUINCE (Cydonia japonica)		
2-yr., S., (2-0), 8 to 18 ins.	20.00	100.00
SWEET SHRUB (Calycanthus floridus)		
3-yr., S., (3-0), 24 to 36 ins.	30.00	200.00
GOLDEN CHAIN TREE (Laburnum anagyroides)		
3-yr., S., (3-0), 24 to 36 ins.	30.00	200.00
LILAC (Syringa vulgaris)		
2-yr., S., (2-0), 4 to 12 ins.	7.00	35.00

Write for complete wholesale list. All stock grown from select seeds and cuttings.

CAREFUL GRADING AND PACKING. Box 22

MUSSER FORESTS, Inc. INDIANA, PENNA.



This Business Of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

FOLIAGE ANALYSIS

For a number of years, fertilizer deficiencies in soils have been determined by a chemical analysis of the soils themselves. At the recent meeting of the Northern Nut Growers Association, at Lancaster, Pa., Dr. H. L. Crane, of the United States Department of Agriculture, remarked that foliage analysis is rapidly being adopted as the best method of determining soil deficiencies. In formal and informal remarks to the members, he discussed the advantages of the new method, explaining its uses.

Already laboratories, where analyses will be made for commercial growers for a fee, are being established for this purpose. Dr. Crane predicted that soon all soils will be indirectly analyzed this way as will soils on which grow many annual crops. The method is to make a chemical analysis of the foliage of plants growing in a certain soil and compare it with the analysis of the foliage of the same kind of plants making optimum growth and bearing a maximum crop. This method has the advantages of not only showing soil deficiencies but also of indicating the availability of the soil nutrients and whether the plants are able to absorb them.

For a number of years plant scientists have been working on the importance of trace elements to the successful growth of crops. They have found that such elements as zinc, magnesium, manganese, copper, boron, sulphur and others are vitally necessary in varying degrees, but in minute quantities, for the successful growth of plants. The importance of these trace elements varies with different crops, and one crop may demand one element and another a different one. According to Dr. Crane, the indiscriminate application of trace elements to the soil will not necessarily be to a crop's advantage; in fact, such action may have a bad effect. One trace element may, in fact, inhibit the absorption of another. It is the presence of these trace elements which is best determined by foliage analysis because

the analysis not only indicates the needs of the plant but also whether the element is being absorbed. The analysis also determines the requirements of the plant for the three main elements, nitrogen, phosphorus and potassium. Even the needs for these three elements have an interrelationship with the presence of trace

elements and also with the pH of the soil. Certain elements become incompatible when the soil is too acid, and even the trace elements cannot be absorbed if the chemical nature of the soil is wrong for the crop.

So, in the future, nurserymen will probably send a packet of leaves instead of a soil sample to a laboratory to see if their soil is ideally fertile for the crop they wish to grow.

W. H. PERRON & CO., LTD., are moving their head office to L'Abord a Plouffe, Que., Canada, and just keeping a branch store at their old headquarters, 935 St. Lawrence, at Montreal. The new office will be situated beside the nurseries, which cover 28 acres. Another branch at St. Laurent has six acres.

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>		
1 1/2 to 2 1/2 ins., clumps.....	\$4.00	\$35.00
2 to 3 ft., clumps.....	6.00	50.00
3 to 4 ft., clumps.....	8.00	70.00

Hex verticillata

2 to 3 ft., clumps.....	6.00	50.00
3 to 4 ft., clumps.....	7.00	60.00

Viburnum cassinoides

2 to 3 ft., clumps.....	5.00	40.00
3 to 4 ft., clumps.....	7.00	60.00

Viburnum dentatum

2 to 3 ft., clumps.....	4.50	35.00
3 to 4 ft., clumps.....	6.00	50.00

SUGAR MAPLES

Unit price in quantities

	10 to 49	50 to 250
<i>Acer saccharum</i>		
1 1/2 to 1 3/4 in. cal.....	\$ 4.00	\$ 3.50
1 3/4 to 1 7/8 in. cal.....	6.00	5.00
1 7/8 to 2 in. cal.....	7.00	6.00
2 to 2 1/8 in. cal.....	9.00	8.00
2 1/8 to 3 in. cal.....	12.00	11.00

CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
5 to 6 ft.,		
2 stems and up.....	\$ 30.00	.....
6 to 8 ft.,		
3 stems and up.....	40.00	.....

Gray Birch

4 to 6 ft.,		
2 to 6 stems.....	20.00	\$150.00
6 to 8 ft.,		
3 to 6 stems.....	35.00	250.00

All stock is first-quality collected material except as otherwise noted. See September 1 issue, pages 22, 23 and 24, for complete wholesale list for fall, 1954, and spring, 1955 of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. Catalog on request.

ISAAC LANGLEY WILLIAMS

P. O. Box 352

EXETER, N. H.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
BOX 3 SELBYVILLE, DEL.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

EVERGREENS

Quality seedlings and transplants for Christmas trees and forest planting. Write for fall, 1954 and spring, 1955 price list.

CLEARFIELD BITUMINOUS COAL CORP.
Department of Forests
INDIANA, Indiana Co., PA.

GROWERS

EVERGREEN TREE LINING-OUT STOCK

For Fall, 1954

SUNCREST EVERGREEN NURSERIES

P. O. Box 594 JOHNSTOWN, PA.

PACIFIC COAST NURSERY

Specializing in
**FRUIT TREE
SEEDLINGS
and
SHADE
TREES**



Established 1914 by
JOHN HOLMASON

**MYROBALAN
MAZZARD
MAHALEB
APPLE
PEAR
and QUINCE
SEEDLINGS**

Present Owners: JOHN HOLMASON and MARTIN and J. P. HOLMASON

2244 N. Skidmore Court ★ Portland, Oregon

Dear Fellow Nurserymen:

No doubt you have all heard about the cool summer we have had out here on the Pacific coast. We really never had any summer, just very unusual weather and different from anything I have seen during the 40 years I have lived here.

It has been so cool that we have had to have a little fire to take the chill out of the house almost all summer. However, we have never had such a good growing season for our seedlings and shade trees, but it has not been so good for many other crops.

Our sales for this time of the year are very satisfactory, but we still have a small surplus in seedlings and trees. If you haven't already placed your order for next winter's delivery with us or someone else, we would suggest that you do so now, for by waiting too long, you may lose out.

We realize that it isn't possible for many of you to make this long trip out west to see the nurseries here, but we have had a few eastern visitors--three of the Stark Brothers, Harry Malter from Greening Nursery and Mr. E. M. Quillen from the Waynesboro Nurseries. We took these men to visit all the nurseries near us in Oregon and to see the nurseries in Yakima Valley, Washington. It will cost only a three-cent stamp to write to any of the men mentioned and ask them how our stock looks, should you be interested.

We will be shipping cars to most of the eastern states as well as the southern states, and your orders can be included in some car headed your way. We guarantee satisfaction on everything you get from us, unless something beyond our control should happen to the stock. Price lists of what we grow will be mailed upon request.

Our very best wishes to all of our customers and friends.

Sincerely yours,
PACIFIC COAST NURSERY
J. Holmason & Sons

John Holmason

15,000

SPREADING AND UPRIGHT YEW

TAXUS CUSPIDATA CAPITATA

(Japanese Upright Yew)

18 to 24 in., regular	\$2.50
2 to 2½ ft., slender	2.50
2 to 2½ ft., regular	2.75
2½ to 3 ft., slender	2.75
2½ to 3 ft., regular	3.50
3 to 3½ ft., slender	3.50
3 to 3½ ft., regular	4.00
3½ to 4 ft., slender	4.75
3½ to 4 ft., regular	6.00
4 to 4½ ft., slender	6.75
4 to 4½ ft., regular	8.00

TAXUS CUSPIDATA

(Japanese Spreading Yew)

15 to 18 in.	\$2.50
18 to 24 in.	3.00

TAXUS HICKSI

15 to 18 in.	\$2.25
18 to 24 in.	2.75
2 to 2½ ft.	3.25

All stock has been treated and can be shipped outside the Beetle zone.

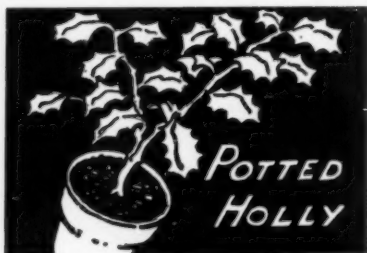
Prices F.O.B. Our Nurseries
All stock sheared in spring or summer of 1954.

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Nurseries: Colonial Spring Rd.
MELVILLE, L. I., N. Y.



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We have choice named varieties which have been widely used by many eastern nurseries. Root-bound holly liners out of 3-in. pots or deep soil cans, from 6 to 10 ins. high. Also rooted cuttings. Ilex Cornuta Burfordi, Franklinia rooted cuttings. Arctostaphylos (Bearberry), out of 3-in. pots.

Taxus (varieties), 1 and 2-yr. We guarantee true to name and a reliable year-after-year source.

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Trees and Shrubs

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P. O. Huntington Station, N. Y.

BENCH CUTTINGS

	Per 100	Per 1000
Juniper, Irish	\$10.00	\$ 90.00
Retinospora Pisifera		
Plumosa	10.00	90.00
Taxus Cuspidata Spreading	10.00	90.00
Taxus Cuspidata Upright, tips	11.00	100.00
Taxus Media	10.00	90.00
Taxus Media Brevifolia	10.00	90.00
Taxus Media Brevifolia		
Nana	10.00	90.00
Taxus Media Hatfieldi	9.00	80.00
Taxus Media Hicksi	10.00	90.00
Taxus Media Densiformis	10.00	90.00
Thuja Occidentalis		
Compacta	12.50	110.00
Thuja Occidentalis Globosa		
Nova	12.50	110.00
Thuja Occidentalis Nigra	11.00	100.00
Thuja Occidentalis Parsons		
Globe	10.00	90.00

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QUALITY MERCHANDISE AT REASONABLE PRICES

VANDERBROOK NURSERIES

MANCHESTER, CONN.

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OBITUARY

Louis S. Deigaard

Louis S. Deigaard, owner of Deigaard Nurseries, Monrovia, Calif., died August 30, as the result of an accident. He was born 56 years ago in Denmark, where his parents also were in the nursery business. Deigaard Nurseries were founded in 1933, following six years of Mr. Deigaard's partnership with Harry Rosedale, who became sole owner of the Monrovia Nursery Co. at that time.

Mr. Deigaard was active in the American Association of Nurserymen, the California Association of Nurserymen and many lodges and other organizations.

Deigaard Nurseries, comprising some 65 acres of growing grounds, specialize in palms, ornamental shrubs and trees. The business will be carried on under the direction of Mrs. Deigaard. Two children also survive, Barbara, 20, and Kent, 19.

Howard E. Andrews

Howard Edwin Andrews, until a few months ago manager of the Mountain Meadow Nursery, Monroe, Wash., died September 4 at the Veterans' Administration hospital, Seattle. He was 63. Illness had forced him to relinquish his nursery position.

Mr. Andrews was born at Evanston, Ill., and went to Seattle in 1919. He was chief state nursery inspector before joining Mountain Meadow Nursery, in 1947.

Mr. Andrews was a charter member of the Washington State Nurserymen's Association and the firm is a member of the American Association of Nurserymen.

Elizabeth, his widow; a daughter, Mrs. Eloise Hanson, Seattle; a sister, Mrs. Ralph Miller, Everett, and two grandchildren survive him.

Mrs. W. C. Daniels, Sr.

Mrs. W. C. Daniels, Sr., assistant secretary and office manager of Mecklenburg Nurseries, Inc., Charlotte, N. C., died August 12 after a 2-week illness, it has been learned.

Surviving Mrs. Daniels are her husband, who is president and general manager of Mecklenburg Nurseries; four sons; a sister; a brother, and nine grandchildren.

DUANE E. ANDERSON recently opened the Big Horn Nursery, Powell, Wyo.

Potting's faster than ever now with **CLOVERSET POTS***

In addition to all the advantages of using Cloverset pots, advantages known to thousands of practical nurserymen from coast to coast, they now have an added feature which will mean a substantial saving of time in your potting operations:

**BOTTOM TABS FOLDED
IN BEFORE SHIPMENT
at NO INCREASE
IN PRICE**



Cloverset pots, the original and accepted standard pots with the patented drainage feature, now cost you still less to use because you save both time and labor costs in the potting shed. These light-but-strong pots, specially treated to prevent sticking together when nested, are easy to handle, come in all sizes for each type of stock and last a full year or more. There's no can cutting, knocking out or wrapping at time of sale, another timesaving feature; the pot goes with the plant for transplanting at the customer's convenience. On every count, Cloverset pots make for a faster, better and more profitable operation!

POT PRICES F.O.B. KANSAS CITY

Size	Height	Top Diam.	Nearest Clay Pot	No. In Carton	Weight Per 1000	Per 100	Price Per 1000
No. 0	5 1/4 ins.	5 ins.	8 ins.	200	210 lbs.	\$3.25	\$30.00
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	340 lbs.	4.50	42.50
No. 2	9 1/4 ins.	7 ins.	8 ins.	100	535 lbs.	5.00	47.50
No. 3	9 ins.	8 ins.	9 ins.	100	610 lbs.	5.50	52.50
No. 4	13 ins.	12 ins.	.....	25	Per 100 130 lbs.	Per 25 \$7.00 | Per 50 \$15.25 | Per 75 \$19.75	Per 100 \$23.75 | Per 1000 \$210.00

Also available through our eastern distributor,
MOORESTOWN GARDENS, INC., Moorestown, Burlington Co., N. J.

POT PRICES F.O.B. MOORESTOWN, NEW JERSEY

(all sizes kept in stock)

SIZE	Price per 100	Price per 1000
0	\$3.75	\$ 35.00
1	5.35	51.00
2	6.25	60.00
3	6.90	66.50
4	26.75	240.00

EXCLUSIVE PATENTED BOTTOM OPENING PROVIDES PROPER DRAINAGE—These are the only pots with this feature: roots are properly protected in Cloverset pots, provided with the right amount of moisture for healthy growth with no water-logging . . . no wonder stock thrives in them!

NOTE: Blanks are available—the regular Cloverset pots except not folded in and stapled. Write for information.

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- Please send items checked; I enclose _____ c.
☐ Sample set of 5 pots at 50c (limit one set).
☐ Sample of new "Cultural Directions" folders which I may use for my customers.
☐ Free illustrated wall chart for potting shed.
☐ Free folder about newspaper ad mats.
☐ Information about Rose & Garden Dust.

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	Per 100	
Hydrangea P.G., 1-yr., layer	\$	8.50
Pin Oak, 2-yr., S.	15.50	
Red Oak, 2-yr., S.	11.50	
Scarlet Oak, 2-yr., S.	16.50	
White-flowering Dogwood, 1-yr., S., 10 to 15 ins.	7.50	
Paper Birch, 2 to 3 ft., T.	25.00	
Euonymus alatus, 8 to 12 ins., T.	22.50	
Red Maple, 1 1/2 to 2 ft., T.	20.00	
Silver Maple, 4 to 5 ft., T.	48.00	
Sugar Maple, 1 1/2 to 2 ft., T.	20.00	
Salix Babylonica, 12 to 18 ins.	6.00	
2 to 3 ft.	9.50	
3 to 4 ft.	12.50	
Oriental Plane, 6 to 12 ins.	8.50	
12 to 18 ins.	10.50	
California Privet, 2-yr., 12 to 18 ins.	8.00	
18 to 24 ins.	11.00	
2 to 3 ft.	15.00	
Packing charges extra.		
	Each Per 10	Each Per 100
Retinospora plumosa		
Retinospora plumosa aurea, 1 1/2 to 2 ft.	\$1.75	1.50
2 to 2 1/2 ft.	2.25	2.00
Andorra Juniper, 1 1/2 to 2 ft.	2.25	2.00
2 to 2 1/2 ft.	2.75	
Pfitzer Juniper, 2 to 2 1/2 ft.	2.75	2.50
2 1/2 to 3 ft.	3.25	3.00
Ilex crenata		
Ilex rotundifolia, 1 1/2 to 2 ft.	3.00	2.75
Hicks' Yew, 2 1/2 to 3 ft.	4.25	4.00
3 to 3 1/2 ft.	5.00	4.50
Prices for Evergreens Dug at Dresher.		
GOODRICH BUDDING STRIPS RAFFIA		
THOMAS B. MEEHAN CO., INC. DRESHER, PA.		

Coming Events



October 1 to 3, Texas rose festival, Tyler, Tex. (See September 15 issue.)

October 12 and 13, All-Jersey Florists' and Nurserymen's convention, Berkeley-Carteret hotel, Asbury Park, N. J.

October 20 to 22, Florida State Horticultural Society, Empress hotel, Miami Beach, Fla.

November 6 to 8, Florida Nurserymen and Growers Association, trade meet, Fort Harrison hotel, Clearwater, Fla. (See September 15 issue.)

November 11 and 12, Holly Society of America, fall meeting, Millville, N. J.

NEW JERSEY MEETING

A convention of the All-Jersey Florists' and Nurserymen's Association will be held October 12 and 13 at Asbury Park, N. J. Highlights of the event will be a program for growers and nurserymen, a design school and a trade fair.

This association is a continuation of the All-Jersey Florists' group, which was started in 1931 and which has been enlarged to include nurserymen.

HORTICULTURISTS TO MEET

The 1954 session of the Florida State Horticultural Society is scheduled for October 20 to 22 at the Empress hotel, Miami Beach, Fla., according to E. L. Spencer, secretary.

In addition to the general sessions, programs will be devoted to ornamental, citrus, vegetable and processing sections.

HORTICULTURE SHOW

The 41st annual horticulture show sponsored by the Penn State Horticulture Club will be held on the campus of Pennsylvania State University, State College, Pa., over the week-end of October 16. Approximately 20,000 persons are expected to attend the show.

THE new location of Portland Wholesale Nursery Co. is 5050 Southeast Stark street, Portland, Ore. Facilities for efficient handling of stock have been improved through the use of a new warehouse and five acres of adjoining land.

THE Conrads are the new name for the Yager Seed & Nursery Co., Fremont, Neb., according to Earl Conrad, owner and manager of the 65-year-old firm.

THE Coble Nursery & Garden Shop, Waverly, O., were recently opened by Brouen L. Coble.

SPECIMEN LANDSCAPE MATERIAL

Fine blocks of:

Arborvitae—American, Spiralis, Elegantissima, Ware and Globe, 2 to 12 ft.
Hemlock, 3 1/2 to 7 ft.
Ilex Convexa, 1 1/2 to 3 1/2 ft.
Magnolia Lennei, 5 to 8 ft.
Magnolia Soulangeana, 3 to 7 ft.
Pieris Japonica, 1 1/2 to 3 1/2 ft.
Pink Dogwood, 4 to 6 ft.
Spreading Yews, 1 to 7 ft.
Upright Yews, 2 to 7 ft.

We most cordially invite you to visit us and inspect these and other materials.

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Growers of Fine Plants
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CHINESE CHESTNUTS

Hemming Strain Blight-Resistant Trees

Seed \$1.25 per lb.

\$100.00 per 100 lbs.

	Per 10	Per 100	Per 1000
12 to 18 ins.	\$2.50	\$22.50	\$200
18 to 24 ins.	3.50	32.50	300
2 to 3 ft.	6.00	55.00	500
3 to 4 ft.	7.50	70.00	650

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Crystal's BORER REPELLENT

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30-gal. drum...\$36.00 5-gal. drum...\$7.00
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Taxus, Ilex and other Ornamentals.
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OFFERS FOR FALL, 1954

Hardy Deciduous Flowering Shrubs

	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
CYDONIA JAPONICA RUBRA				LonicerA MORROWI (Morrow's Honeysuckle)			
True upright red, nonfruiting.				12 to 18 ins., 2-yr., well-br.	\$0.75	\$ 6.00	\$ 50.00
12 to 18 ins., 2-yr., br.	\$3.00	\$25.00	.....	18 to 24 ins., 2-yr., well-br.	1.25	9.00	75.00
18 to 24 ins., 2-yr., br.	3.50	30.00	.....	2 to 3 ft., 2-yr., well-br.	1.50	12.00	100.00
2 to 3 ft., 2-yr., br.	5.00	45.00	.....	3 to 4 ft., 2-yr., well-br.	2.00	15.00	125.00
DEUTZIA SCABRA (Pride of Rochester), double white.				LonicerA TATARICA (Tatarian Honeysuckle)			
12 to 18 ins., 2-yr., well-br.	.75	6.00	\$ 50.00	12 to 18 ins., 2-yr., well-br.	1.00	8.00	70.00
18 to 24 ins., 2-yr., well-br.	1.25	9.00	75.00	18 to 24 ins., 2-yr., well-br.	1.50	12.50	100.00
2 to 3 ft., 2-yr., well-br.	1.75	12.50	100.00	2 to 3 ft., 2-yr., well-br.	2.00	15.00	.....
3 to 4 ft., 2-yr., well-br.	2.00	15.00	135.00	PHILADELPHUS CORONARIUS (Sweet Mock Orange)			
FORSYTHIA FORTUNEI (Fortune Forsythia)				12 to 18 ins., 2-yr., well-br.	1.25	9.00	75.00
FORSYTHIA INTERMEDIA (Border Forsythia)				18 to 24 ins., 2-yr., well-br.	1.75	12.50	100.00
12 to 18 ins., 2-yr., well-br.	1.00	6.00	50.00	2 to 3 ft., 2-yr., well-br.	2.25	20.00	175.00
18 to 24 ins., 2-yr., well-br.	1.50	10.00	80.00	PRUNUS GLANDULOSA			
2 to 3 ft., 2-yr., well-br.	1.75	15.00	100.00	Double, (Pink-flowering Almond), own-root.			
3 to 4 ft., 2-yr., well-br.	2.00	17.50	150.00	12 to 18 ins., T., well-br.	2.50	20.00	190.00
HYDRANGEA PANICULATA GRANDIFLORA				18 to 24 ins., T., well-br.	3.00	25.00	210.00
(Peegee Hydrangea)				2 to 3 ft., T., well-br.	3.50	30.00	.....
12 to 18 ins., 2-yr., well-br.	1.75	12.50	100.00	3 to 4 ft., T., well-br.	4.50	40.00	.....
18 to 24 ins., 2-yr., well-br.	2.00	17.50	150.00	SPIRAEA PRUNIFOLIA (Double-flowering Bridal Wreath)			
HYDRANGEA QUERCIFOLIA (Oak-Leaf Hydrangea)				12 to 18 ins., 2-yr., well-br.	2.00	15.00	.....
12 to 18 ins., T., well-br.	4.00	30.00	.....	18 to 24 ins., 2-yr., well-br.	2.50	20.00	.....
18 to 24 ins., T., well-br.	5.00	45.00	.....	2 to 3 ft., 2-yr., well-br.	3.50	30.00	.....
2 to 3 ft., T., well-br.	9.00	75.00	.....	3 to 4 ft., 2-yr., well-br.	4.50	40.00	.....
LIGUSTRUM AMURENSE (Amur River North Privet)				SPIRAEA THUNBERGI (Snow Wreath Spiraea)			
12 to 18 ins., 3 br. and up.	5.00	40.00	.....	12 to 18 ins., T., well-br.	1.50	12.50	.....
18 to 24 ins., 3 br. and up.	5.00	40.00	.....	18 to 24 ins., 2-yr., well-br.	2.00	17.50	150.00
2 to 3 ft., 2 and 3 br.	1.00	7.50	60.00	2 to 3 ft., 2-yr., well-br.	3.00	25.00	.....
2 to 3 ft., 4 br. and up.	1.75	10.00	90.00	SPIRAEA VANHOUTTEI (Van Houtte Spiraea)			
LIGUSTRUM IBOLIUM (Ibolum Privet)				18 to 24 ins., 2-yr., well-br.	1.75	12.50	100.00
12 to 18 ins., 3 br. and up.	5.00	40.00	.....	2 to 3 ft., 2-yr., well-br.	2.00	17.50	150.00
18 to 24 ins., 3 br. and up.	5.00	40.00	.....	3 to 4 ft., 2-yr., well-br.	3.00	25.00	200.00
2 to 3 ft., 2 and 3 br.	1.00	7.50	60.00	SYRINGA VULGARIS (Common Purple Lilac)			
2 to 3 ft., 4 br. and up.	1.75	10.00	90.00	18 to 24 ins., 2-yr., T.	2.50	20.00	.....
LIGUSTRUM OVALIFOLIUM (California Privet)				2 to 3 ft., 2-yr., T.	3.00	25.00	.....
12 to 18 ins., 3 br. and up.	5.00	40.00	.....	WEIGELA HENDERSONI (Dark Pink Weigela)			
18 to 24 ins., 3 br. and up.	5.00	40.00	.....	12 to 18 ins., 2-yr., well-br.	1.00	8.00	75.00
2 to 3 ft., 2 and 3 br.	1.00	7.50	60.00	18 to 24 ins., 2-yr., well-br.	1.50	12.50	100.00
2 to 3 ft., 4 br. and up.	1.50	7.50	70.00	2 to 3 ft., 2-yr., well-br.	2.50	20.00	175.00
LonicerA FRAGRANTISSIMA (Winter Honeysuckle)				3 to 4 ft., 2-yr., well-br.	3.50	30.00	.....
12 to 18 ins., 2-yr., well-br.	1.50	12.50	.....	WEIGELA ROSEA (Pink Weigela)			
18 to 24 ins., 2-yr., well-br.	2.50	20.00	.....	12 to 18 ins., 2-yr., well-br.	.75	6.50	60.00
2 to 3 ft., 2-yr., well-br.	3.50	30.00	.....	18 to 24 ins., 2-yr., well-br.	1.25	10.00	90.00
				2 to 3 ft., 2-yr., well-br.	2.00	17.50	150.00
				3 to 4 ft., 2-yr., well-br.	3.00	25.00	.....

Forest and Shade Trees

	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
ACER DASycARPUM (Silver Maple)				CORNUS FLORIDA (White-flowering Dogwood)			
4 to 5 ft., br., T.	\$ 4.00	\$35.00	.....	3 to 4 ft., br., T.	\$10.00	\$ 90.00	.....
5 to 6 ft., br., T.	6.00	50.00	.....	4 to 5 ft., br., T.	15.00	125.00	.....
6 to 8 ft., br., T.	8.00	70.00	.....	5 to 6 ft., br., T.	17.50	150.00	.....
ALBIZZIA JULIBRISSIN (Mimosa or Silk Tree)				6 to 8 ft., br., T.	20.00	175.00	.....
4 to 5 ft., S., 3-yr.	3.00	25.00	.....	(add 50c per plant for B&B)			
5 to 6 ft., S., 3-yr.	4.50	40.00	.....	CORNUS FLORIDA RUBRA (Pink-flowering Dogwood)			
6 to 8 ft., S., 3-yr.	8.00	75.00	.....	12 to 18 ins.	8.00	70.00	\$650.00
8 to 10 ft., S., 3-yr.	10.00	90.00	.....	18 to 24 ins.	12.50	100.00	900.00
BETULA NIGRA (River Birch)				24 to 30 ins.	15.00	125.00	1100.00
5 to 6 ft., br., T.	5.00	40.00	.....	30 to 36 ins.	17.50	150.00	.....
6 to 8 ft., br., T.	8.00	70.00	.....	3 to 4 ft.	22.50	.....	.....
8 to 10 ft., br., T.	10.00	.....	.....	(add 50c per plant for B&B)			
CATALPA SPECIOSA (Northern Catalpa)				LIQUIDAMBAR STYRACIFLUA (Sweet Gum)			
4 to 5 ft., br., T.	6.00	50.00	.....	4 to 5 ft., br., T.	7.00	60.00	.....
5 to 6 ft., br., T.	9.00	75.00	.....	5 to 6 ft., br., T.	9.00	75.00	.....
6 to 8 ft., br., T.	10.00	90.00	.....	LIRODENDRON TULIPIFERA (Tulip Poplar)			
CERCIS CANADENSIS (American Redbud)				4 to 5 ft., br., T.	4.00	35.00	.....
3 to 4 ft., br., T.	4.00	35.00	.....	5 to 6 ft., br., T.	6.00	50.00	.....
4 to 5 ft., br., T.	6.00	50.00	.....	6 to 8 ft., br., T.	8.00	70.00	.....
5 to 6 ft., br., T.	9.00	75.00	.....	PLATANUS OCCIDENTALIS (American Sycamore)			
6 to 8 ft., br., T.	10.00	90.00	.....	4 to 5 ft., br., T.	5.00	40.00	.....
				5 to 6 ft., br., T.	7.50	60.00	.....
				6 to 8 ft., br., T.	9.00	75.00	.....
				ULMUS PUMILA (Chinese Elm)			
				4 to 5 ft., br., T.	6.00	50.00	.....
				5 to 6 ft., br., T.	7.50	60.00	.....

Complete Price List mailed on request. Write for attractive quotations on items not listed in both lining-out and finished grades.

3% discount and free packing when cash in full is sent with order. Open accounts on known or approved credit ratings. 3% 10 days, net 30 days with packing charged at cost.

LINING-OUT STOCK

	Each	Each
	per	per
	100	1000
<i>Ilex crenata</i> , 2-yr., S., 4 to 6 ins.	\$0.05	
1-yr., S., 2 to 4 ins. ....	.03	
3-yr., T., field beds, 6 to 8 ins.	\$0.30	.25
<i>Ilex convexa</i> , 3-yr., T., field beds, 6 to 9 ins. ....	.35	.30
<i>Juniperus pfitzeriana glauca</i> , 3-yr., T., field beds, 8 to 10 ins. ....	.35	.32
<i>Taxus cuspidata</i> , 3-yr., T., field beds, 8 to 10 ins.35	..
2-yr., T., field beds, 6 to 8 ins.25	..
<i>Taxus hicksii</i> , 2-yr., T., field beds25	..

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The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$4.25 per 100 parcel post prepaid. \$35.00 per 1000; \$32.50 per 1000 for 10,000 or more in same shipment. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

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Fall and spring delivery. Beautiful, heavy, sheared material.

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	Each	Each
	Per 10	Per 100
2 to 3 ft.	\$4.25	\$4.00
3 to 4 ft.	5.50	5.00

LINERS

	Per 100	Per 1000
4-yr., T.	\$45.00	\$400.00
6-yr., TT.	75.00	650.00

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One of the most complete collections of the better named evergreen hollies in the country.

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Chinese
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Available in three to six-inch pots.
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Upright, 4 to 14 ft.

Truckloads only, no boxing.

BULK'S NURSERIES

BABYLON, L. I., N. Y.

NUT GROWERS MEET

The 45th annual meeting of the Northern Nut Growers Association, which was held at Franklin and Marshall College, Lancaster, Pa., August 30 to September 1, spotlighted the Chinese chestnut as an important nut tree. Registration showed that 152 members, representing 20 states, were in attendance.

President Richard E. Best, Columina Seed Co., Eldred, Ill., called the meeting to order.

Among the important business conducted during the course of the meeting was the annual election which resulted in the following new officers: President, Prof. George Slate, New York state agricultural experiment station, Geneva, N. Y.; vice-president, Gilbert Becker, Climax, Mich.; secretary, Spencer B. Chase, Chase Greenhouses, Inc., Knoxville, Tenn., and treasurer, Prof. William S. Clarke, Jr., Pennsylvania State University, State College, Pa.

Honorary membership was extended to J. Ford Wilkinson, veteran nut nurseryman of Rockport, Ind. He was recognized for his long years of service, outstanding contributions to nut tree culture and propagation ability.

Also honored was Dr. L. H. MacDaniels, New York state agricultural experiment station, Geneva, who was crowned "King Nut" at the annual banquet, in recognition of his many contributions to nut tree culture.

Chinese Chestnuts

Chinese chestnuts, of prime interest at the convention, was the subject of a panel discussion, entitled "Future of the Chestnut Industry," led by Dr. J. W. McKay, United States Department of Agriculture, Beltsville, Md. A number of interesting points were brought out, among them that up to the present chestnuts have been grown mainly for seeds.

The need for chestnut plantings in game areas was noted by Dr. R. D. Anthony, State College, Pa., who reported progress made in Pennsylvania in establishing such plantings.

E. Sam Hemming, Easton, Md., discussed growing chestnuts in his nursery, and Dr. H. L. Crane, United States Department of Agriculture, Beltsville, Md., spoke of studies on variety Nanking, which he described as having more heavy bloom and heavier crops than other seedlings used in the test.

Outstanding talks were also given

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COUNTESS VANDAL, Pink, copper, gold and salmon.
TEXAS CENTENNIAL, Vermilion-red and gold.

RED

CRIMSON GLORY, Deep velvety and crimson.

AMI QUINARD, Velvety crimson-maroon.

POINSETTIA, Bright scarlet.

McGREDY'S SCARLET, Scarlet-red.

YELLOW

ECLIPSE, Longbud and rich gold.

SOEUR THERESE, Double and rich yellow.

PINK

MME. COCHET-COCHET, Coppery-pink and reflected gold.

BETTY UPRICHARD, Salmon-pink.

EDITOR McFARLAND, Brilliant pink.

WHITE

K. A. VICTORIA, Snowy-white and double.

FLORIBUNDA

POULSEN BEDDER, Clear, rich pink.

RED RIFPLES, Carmine-red.

CLIMBING ROSES

BLAZE, Bright red.

DOUBLOONS, Clear golden-yellow.

CITY OF YORK, Creamy-white.

BROWNELL SUB-ZERO HYBRID TEA

A new race from hardies species. Wichurian hybrids, that can bloom all summer along with the more tender hybrid teas. The originator reports flowers of equal merit in size, form, fragrance and color and plants many times longer lived even after sub-zero winters.

	Each	per	per
	Each	10	100

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Many large two-tone pink blooms.

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	Each	per	per
	10	10	100

BLANCHE MALLERIN

Pat. No. 594—Retail \$2.00 each

Pure white, fragrant.

No. 1 \$1.25 \$1.10 \$1.00

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Pat. No. 911—Retail \$2.00 each

Medium pink.

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GOLDEN ANNIVERSARY

Pat. No. 806—Retail \$1.75 each

Old gold color, flushed apricot.

No. 1 1.15 1.00 .87½

No. 1½80 .70

GOOD NEWS

Pat. No. 426—Retail \$1.75 each

Deep copper-pink to shell-pink.

No. 1 1.15 1.00 .87½

No. 1½80 .70

PEACE

Pat. No. 591—Retail \$2.50 each

Golden-yellow etched with pink.

No. 1 1.60 1.40 1.25

No. 1½ 1.12 1.00

PENNSYLVANIA

Pat. No. 936—Retail \$2.00 each

Soft apricot—orange—pink.

No. 1 1.25 1.10 1.00

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SUZON LOTHE

Pat. No. 934—Retail \$2.50 each

Pearly-pink and white.

No. 1 1.60 1.40 1.25

No. 1½ 1.12 1.00

COCORICO

Pat. No. 1193—Retail \$2.00 each

Flashing scarlet.

No. 1 1.25 1.10 1.00

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Pat. No. 889—Retail \$2.00 each

White.

No. 1 1.25 1.10 1.00

No. 1½88 .80

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Pat. No. 1050—Retail \$1.50 each

Pale amber and pink.

No. 1 1.00 .90 .75

No. 1½72 .60

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15c each above cost of individual rose. Attractively packed in distinctive yellow, red and blue waterproof bags, tops paraffine waxed. Beautiful full-color picture label and planting suggestions appear on each bag.

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Terms: Cash, B&B at the Nursery

	Each
1500 Juniperus Excelsa Stricta	
15 to 18 ins.	\$1.50
4000 Juniperus Glaucia Hetzi	
15 to 18 ins.	2.25
400 Retinospora Plumosa Aurea	
18 to 24 ins.	2.75
350 Retinospora Squarrosa Veltchi	
18 to 24 ins.	2.50
600 Taxus Cuspida	
18 to 20 ins.	3.50
700 Taxus Cusp. Intermedia	
15 to 18 ins.	3.50
1800 Taxus Media Hatfieldi	
24 to 30 ins.	4.00
1200 Taxus Media Hicksi	
18 to 24 ins.	3.50
650 Thuja Occidentalis Elegantissima	
24 to 30 ins.	2.50
700 Thuja Occidentalis Globosa	
15 to 18 ins.	2.75
500 Thuja Occidentalis Pyramidalis	
36 to 38 ins.	3.00

YOUNG SALABLE EVERGREENS

Grown three years in 15-inch rows planted 15 inches apart, under irrigation. Splendid young salable evergreens for the cash-and-carry trade of garden shops, roadside markets and nurseries.

500 Thuja Occidentalis Pyramidalis	
24 to 30 ins.	1.50
1500 Thuja Occidentalis Pyramidalis	
30 to 36 ins.	2.50
2500 Juniperus Chinensis Pfitzeriana	
12 to 15 ins.	1.25
1500 Juniperus Excelsa Stricta	
12 to 15 ins.	1.25
3000 Juniperus Glaucia Hetzi	
12 to 15 ins.	1.25
6000 Taxus Cuspida	
8 to 10 ins.	1.25
5000 Taxus Cusp. Intermedia	
8 to 10 ins.	1.25
4000 Taxus Media Hicksi	
10 to 12 ins.	1.00
2500 Thuja Occidentalis Elegantissima	
18 to 20 ins.	1.50
1500 Thuja Occidentalis Globosa	
10 to 12 ins.	1.00
1500 Thuja Occidentalis Wareana	
18 to 20 ins.	1.50

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on a variety of other subjects. The use of nut trees in landscaping was discussed by Lewis E. Theiss, Lewisburg, Pa. E. M. Shelton, Lakewood, O., reported on a variation of the patch budding method, which he called the flap method of budding. Louis Gerardi, Caseyville, Ill., discussed the influence of time and weather conditions on budding success.

Field trips to view outstanding Pennsylvania nut tree plantings closed the convention. W. M. B.

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Per 100

25 Azalea Canescens, 18 to 24 ins.	\$250.00
50 Beech, Tricolor, 2 to 3 ft.	475.00
125 Cedrus Atlantica Glauca, 12 to 18 ins.	150.00
100 Cedrus Libani, hardy, 2-yr., grafts	250.00
15 Cherry, Kwanzan, 6 to 8 ft.	475.00
15 Cherry, Mt. Fuji, 6 to 8 ft.	475.00
200 Cladrastis Lutea, 2 ft., XX	75.00
25 Cornus Alba Spachthi, 2 1/2 to 3 ft.	200.00
100 Dogwood, Pink, 2 to 3 ft.	225.00
100 Euonymus Alatus Compactus, 2 ft.	150.00
75 Hornbeam, Fastigate, 3 to 4 ft.	475.00
100 Ilex Crenata, 15 to 18 ins.	150.00
100 Ilex Crenata Helleri, 10 to 12 ins.	175.00
20 Linden, Silver, 3 to 4 ft.	300.00
500 Maple, Japanese Red, finest color, 1-yr., S.	12.00
100 Pieris Japonica, 15 to 18 ins.	200.00
40 Rhododendron Carolinianum, 18 to 24 ins.	300.00
30 Viburnum Fragrans, 3 to 4 ft.	350.00
50 Vicary Golden Privet, 2 to 3 ft.	50.00
25 Washington Thorn, 4 to 5 ft.	300.00
25 Magnolia Lenei Alba, 2 to 4 ft.	4.00
20 Cryptomeria Lobbi, 2 to 3 ft.	4.00
150 Yews, mixed types, 18 to 24 ins.	300.00

Cash with order; 25 at 100 rate.

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Colorado Blue Spruce 5 to 10 ins., transplants	20.00
Mugho Pine 4 to 8 ins., transplants	20.00
Pink-flowering Dogwood 6 to 10 ins., 1-yr. grafts	65.00
10 to 15 ins., 1-yr. grafts	75.00

Send for new Fall List.

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Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

PLEASEING THE HOMEOWNER

Often landscape men fail to take advantage of the many possibilities in landscape planning or are unwilling to spend enough time to explore them. Time is, unfortunately, an important factor these days, to both the planner and the client—at least this seems to be the avenue of thinking. The importance of speed is exaggerated too often.

If landscape planners were to gain entrance to the homes of some clients and to see their home grounds as they see them, they would do some landscape jobs a little differently. It is good to have a pleasing exterior appearance, but remember that a home's occupants should be allowed to enjoy their own plantings. Too many times the planning is done so that the home and its grounds are interesting mainly to the onlookers. This is often true of the foundation plantings, since persons like to have their homes appear equal to or better than their neighbors'. Even the foundation planting can be enjoyed by the persons inside the house, however, if it is developed properly.

Owners' View Is Considered

Recently I was guided through a home that was well landscaped from the viewpoint of the client. We did not see the plantings merely from the back terrace and through the picture window, but even from an up-

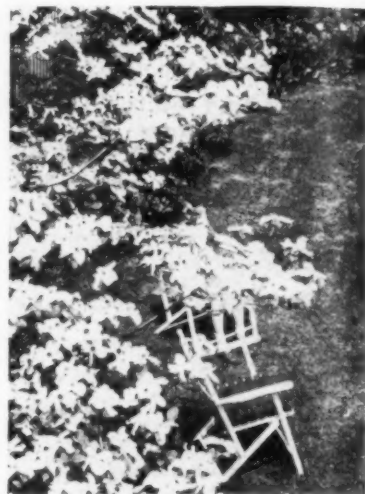


Illustration A. Dogwood That Is Enjoyed from an Upper Window.

stairs hall window, a bedroom window and from many other places of observation within and about the house. Illustration A pictures a dogwood that can be easily seen by the homeowner as he dresses each morning. A clipped evergreen does not provide continued and changing interest, but the dogwood, with its spring flowers, fall color and fruit, can be enjoyed during a good share of the year. The selection of plants for intimate views is important.

The taste and interests of clients can be determined once the land-



Illustration B. Vistas Become Pictures When They Are Framed.

scape man is in their home. The home may evidence the owners' preference for a particular color. Or, it might be noted that the clients do considerable entertaining, so that a cut flower garden is necessary. There are many signs within the home that direct a landscape man to do a better landscape development.

If a client realizes that the landscape firm has his living at heart in the formulation of his plan, the firm will have gained much. Persons like to have others interested in them and are appreciative when landscape planners go out of their way to plan their living so that it will be better enjoyed. Sometimes the strategic placement of a tree makes a view that the client has enjoyed for many years even more pleasing. One never knows what the one item will be that will be most gratifying to each client.

Some individuals have a definite interest in certain species or varieties of shrubs; some have a yearning for a particular effect, such as a woody feeling, for their home grounds development. When a landscape man knows which shrubs or trees clients like, the plan becomes simpler. These plants should be placed so that they will be seen and enjoyed from the room or terrace that is most frequented. This can usually be done so that they blend with the landscape plan.

Use of Home Determines Plantings

Today, many persons have two homes, a winter and a summer one. The house and grounds with which one is concerned may be used only from September 1 to June 1. It certainly would not be wise to plan an extensive rose garden for such a home, but plantings that included spring-flowering shrubs and those with good fall fruits and colorful autumn foliage would be in keeping. The more landscape men learn of the activities and interests of customers, the more lasting will be the customers' pleasure from the plantings made for them.

Many times landscape men do not make the most of views. For instance, the view shown in illustration B would not be nearly so picturesque if someone had not taken the time to frame it by removing sufficient branches and making strategic placement of additional plants. Interesting views should not be given a broad or flat treatment, which is accomplished by the absence of trees or plants in the foreground. When the viewer's attention is focused, the results are most satisfactory. Everybody is not fortunate

FALL, 1954 — SPRING, 1955 Seedlings, etc.

	Per 100	Per 1000
<i>Abies concolor</i> , 2-yr., S., 3 to 6 ins.	\$10.00	
<i>Acer palmatum</i> , 1-yr., S., 3 to 6 ins.	6.00	\$ 50.00
5000 and up		40.00
<i>Acer rubrum</i> , 2-yr., S., 6 to 12 ins.	5.00	
<i>Acer saccharum</i> , 2-yr., S., 12 to 15 ins.	6.00	
<i>Amelanchier canadensis</i> , 1-yr., S., 8 to 12 ins.	8.50	
<i>Berberis thunbergii atropurpurea</i> , 2-yr., S., 12 to 18 ins.	8.50	75.00
<i>Crataegus cordata</i> , 1-yr., S., 6 to 10 ins.	5.00	
<i>Crataegus crusgalli</i> , 1-yr., S., 3 to 6 ins.	6.00	
<i>Euonymus alatus</i> , 2-yr., S., 4 to 8 ins.	7.50	65.00
<i>Fagus sylvatica</i> , 1-yr., S., 6 to 10 ins.	10.00	85.00
<i>Hamamelis japonica</i> , 1-yr., S., 3 to 4 ins.	10.00	
<i>Ilex crenata</i> , 3-yr., S., 4 to 8 ins.	7.50	65.00
<i>Ilex crenata convexa</i> , 2-yr., S., 3 to 6 ins.	6.00	50.00
<i>Ilex glabra</i> , 2-yr., S., 6 to 8 ins.	15.00	125.00
<i>Ilex verticillata</i> , 1-yr., S., 4 to 8 ins.	8.00	
<i>Juniperus virginiana</i> , transplanted understock	10.00	
<i>Laburnum anagyroides</i> , 1-yr., S., 6 to 8 ins.	5.00	40.00
<i>Picea glauca</i> , 2-yr., S., 3 to 6 ins.	7.50	65.00
<i>Picea pungens glauca</i> , 3-yr., S., 6 to 12 ins.	10.00	
<i>Pinus aristata</i> , 4-yr., S., 4 to 6 ins.	7.50	65.00
<i>Pinus mughus</i> (True dwarf Tyrolean), 3-yr., S., 4 to 6 ins.	6.50	60.00
<i>Pinus mughus</i> (True dwarf Tyrolean), 4-yr., S., 6 to 10 ins.	7.50	65.00
<i>Pinus strobus</i> , 3-yr., S., 6 to 10 ins.	6.00	50.00
<i>Pinus thunbergii</i> , 2-yr., S., 3 to 6 ins.	4.00	35.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S., 3 to 6 ins.	5.00	40.00
<i>Pseudotsuga taxifolia glauca</i> , 3-yr., S., 6 to 12 ins.	8.00	75.00
<i>Sorbus aucuparia</i> , 2-yr., S., 6 to 12 ins.	6.00	50.00
<i>Taxus cuspidata</i> , 2-yr., S., 3 to 6 ins.	12.00	100.00
<i>Thuja orientalis</i> , transplanted understock	7.50	65.00
<i>Tsuga canadensis</i> , 8 to 12 ins., T.	20.00	
<i>Viburnum carlesii</i> , 2-yr., S., 4 to 8 ins.	15.00	
<i>Viburnum lantana</i> , 2-yr., S., 4 to 8 ins.	7.50	60.00
<i>Viburnum setigerum</i> , 1-yr., S., 4 to 8 ins.	12.50	100.00

*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

Well-established cuttings from 2 1/4-in. pots.

	Per 10	Per 100
<i>Chamaecyparis cyano viridis</i>	\$2.25	\$17.50
<i>Euonymus cuneifolius</i>	2.25	17.50
<i>Euonymus patens</i>	2.25	17.50
<i>Euonymus vegetus</i>	2.25	17.50
<i>Ilex crenata convexa</i>	2.25	17.50
<i>Ilex crenata helleri</i>	2.25	17.50
<i>Ilex crenata microphylla</i>	2.25	17.50
<i>Ilex crenata rotundifolia</i>	2.25	17.50
<i>Ilex glabra</i>	2.25	17.50
<i>Juniperus glauca hetzi</i>	2.25	17.50
<i>Juniperus horizontalis Bar</i>		
Harbor	2.25	17.50
<i>Juniperus pfitzeriana</i>	2.25	22.50
<i>Juniperus pfitzeriana nana</i>	2.25	22.50
<i>Juniperus sargentii</i>	2.25	22.50
<i>Mahonia bealei</i>	2.50	20.00
<i>Taxus baccata repandens</i>	2.25	17.50
<i>Taxus cuspidata aurea</i>	2.25	22.50
<i>Taxus cuspidata capitata</i>	2.25	22.50
<i>Taxus cuspidata nana</i>	2.25	17.50
<i>Taxus cuspidata F & F</i>		
compacta	2.25	17.50
<i>Taxus cuspidata densiformis</i>	2.25	17.50
<i>Taxus media brownii</i>	2.25	17.50
<i>Taxus media clifforti</i>	2.25	17.50
<i>Taxus media Halloran</i>	2.25	17.50
<i>Taxus media hatfieldi</i>	2.25	17.50
<i>Taxus media henryi</i>	2.25	17.50
<i>Taxus media hicksii</i>	2.25	17.50
<i>Taxus media Moon's</i>		
columnaris	2.25	17.50
<i>Taxus media Vermeulen</i>	2.25	17.50
<i>Thuja occidentalis globosa</i>		
Howe type	2.25	17.50

Ericaceous plants from 2 1/4-in. pots.

	Per 10	Per 100
<i>Azalea mollis</i>	\$2.25	\$17.50
<i>Azalea schlippenbachii</i>	2.25	17.50
<i>Azalea vaseyi</i>	2.25	17.50
<i>Enkianthus campanulatus</i>	2.25	17.50
<i>Pieris floribunda</i>	2.25	22.50
<i>Pieris japonica</i>	2.25	17.50
<i>Rhododendron maximum</i>	2.25	17.50

1-year grafts from 2 1/4-in. pots.

	Per 10	Per 100
<i>Acer saccharum</i>		
monumentale	\$8.50	\$75.00
<i>Cornus florida pendula</i>	7.00	60.00
<i>Cornus florida rubra</i>	7.00	60.00
<i>Fagus sylvatica riversi</i>	7.00	60.00
<i>Hamamelis mollis</i>	7.00	60.00
<i>Juniperus chinensis keteleeri</i>	7.00	60.00
<i>Juniperus chinensis sargentii</i>	7.00	60.00
<i>Juniperus chinensis sargentii glauca</i>	7.00	60.00
<i>Juniperus virginiana burki</i>	7.00	60.00
<i>Juniperus virginiana canneri</i>	7.00	60.00
<i>Juniperus virginiana glauca</i>	7.00	60.00
<i>Juniperus virginiana globosa</i>	7.00	60.00
<i>Juniperus virginiana schottii</i>	7.00	60.00
<i>Juniperus squamata meyeri</i>	7.00	60.00
<i>Magnolia sieboldii parviflora</i>	8.50	75.00
<i>Parrotia persica</i>	7.00	60.00
<i>Tsuga canadensis sargentii</i>	7.00	60.00

DUE TO HANDLING COSTS, ORDERS FOR LESS THAN \$5.00 CANNOT BE ACCEPTED.

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AZALEA KAEMPFERI. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fall. Deciduous. 4 to 6 ins., T. \$15.00 per 100

AZALEA KURUME. Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds. Good evergreen foliage. 2-yr., T., 4 to 8 ins. \$15.00 per 100

AZALEA POUKHANENSIS. Large orchid flowers which rarely winterkill. Deciduous. 4 to 6 ins., T. \$15.00 per 100
8 to 10 ins., T. 25.00 per 100

AZALEA SCHLIPPENBACHI. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous. 4 to 6 ins., T., heavy \$25.00 per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than *Azalea Indica Alba*. 4 to 8 ins., T. \$15.00 per 100

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather and often last six weeks. Grows well in sun or shade. Makes a nice contrast with azaleas and rhododendrons.

4 to 6 ins., T. 15c each
6 to 8 ins., T. 20c each

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CHRISTMAS TREE REFORESTATION

Seedlings — Transplants
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RED OAKS

2 to 7-in. cal.

Other shade trees available.

Write for Prices.

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P. O. Box 14 BIRDSBORO, PA.

enough to have the scene shown in illustration B, but many pictures can be created if only the possibilities are seen.

It was common in the days of estate developments to cut large swaths through the woodlands so that vistas to water, valley or mountain areas could be enjoyed by the owners. On the whole, such days are over, but the principle still exists, and even on the small place there are opportunities for creative endeavors in this realm.

Plants for Water Areas

Water areas offer many avenues for us to explore. Small ponds, streams and brooks are not complete without the addition of shrubs or trees. A small pond often appears doubly inviting by the presence of a willow which leans over the water. The position of this tree is important, in that it should frame a view for the persons who sit in shore chairs to look at the water and its perimetrical shrubs and trees. A boat in the distance is not amiss, either. A group of high-bush blueberries makes a colorful sight, especially during the fall when the bushes' rich red fall color is reflected in the water. Such plantings constitute a double feature — the direct view of the foliage is as enjoyable as the reflected picture. It is well to think not only of plants that will grow successfully on the bank of the pond, but also of those that have unusual interest.

Shrubs that have colorful fall colors for bank planting are red chokeberry, redvein enkianthus (*Enkianthus campanulatus*), large fothergilla (*Fothergilla major*), fragrant sumac (*Rhus aromatica*) and double file viburnum (*Viburnum tomentosum*). Their fall coloring includes shades of red and bronze and hints of yellow. Excellent shrubs with yellow fall color are summer sweet and cinnamon clethras (*Clethra alnifolia* and *C. acuminata*); spicebush, and Chinese, vernal and common witch hazels (*Hamamelis mollis*, *H. vernalis*, and *H. virginiana*). There are others that might have been added to this list, but those mentioned are not only colorful but also excellent shrubs. Such small trees as flowering and kousa dogwoods and sourwood (*Oxydendrum arboreum*) are also worthy of recommendation because of their red and scarlet fall colors. Did you ever see black gum or pepperidge (*Nyssa sylvatica*) leaning its horizontal branches of rich red to scarlet foliage over a pond or stream? If you have not, then you have missed an

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Please refer to our ad
in the July 15 issue
for choice liners.

WE OFFER

Per 1000
Acer palmatum, 2-yr., S. \$ 90.00
Cotoneaster horizontalis, 8 to 12
ins. 400.00
Taxus cuspidata capitata,
2-yr., S. 90.00

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Bristol Ferry Rd. PORTSMOUTH, R. I.

Collected Stock for Large Landscape and Highway Projects

Acer rubrum, 1 1/2 to 4-in. cal.
Kalmia latifolia, 1 1/2 to 3 ft.
Rhododendron maximum, 1 1/2 to 4 ft.
Vaccinium corymbosum
Viburnum cassinoides
This is all cutback or burned back stock.
Nursery-grown **Black Hills Spruce**,
1 1/2 to 3 ft.
Price List on Request

BARRY'S EVERGREEN NURSERY

WHITE HAVEN, PA.

WILT-PRUF

Save shipping costs in Pennsylvania, Ohio, West Virginia and Maryland.

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1-gal. can, F.O.B. Butler, Pa. ... \$ 6.60
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62-gal. drums, F.O.B. Butler, Pa. 286.00

Literature free, on request.

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SPRUCE

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4 to 15 feet.

BURMAK NURSERY

95 Hillside Ave. Tel.: Peck. 7-4060
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autumn splendor to which words cannot do justice.

Going back again to the subject of the views that are possible from the windows of a home, shrubs or trees are usually chosen so that they do not spread their branches across the windows. Sometimes it is desirable to have flowering branches extend partly across a window, however, if not too obstructive. It is interesting to see flowers near a window, and it is more enjoyable when they are plants that bloom in early spring, such as forsythia, flowering peaches, etc. Early spring is a time when persons live indoors more than out of doors; so window interest is important. The winter-flowering witch hazels (Chinese, Japanese and vernal) are additional decorative possibilities.

Views and vistas can be important to daily enjoyment of the home. Sometimes a view may include only an old apple tree or a rustic fence. Whatever it may be, this can be important to the persons who make the landscaping business tick—the homeowners.

NORTH CAROLINA TOUR

[Continued from page 12]

The Butler Nurseries, Fayetteville, were visited. They consist of 10 acres of general nursery stock, widely spaced in the field with no irrigation.

The group then returned to Clarendon Gardens and after a tour of the gardens a picnic dinner was spread by the lake through the courtesy of Mr. and Mrs. Ralph Shannon.

Guests on the Tour

Prominent guests who made the tour included C. H. Brannon, head of the North Carolina department of entomology; Jack Gartner, head of ornamental horticulture extension at North Carolina State College; M. E. Gardner, head of the horticulture department at North Carolina State College; David Bosley, new extension specialist in ornamental horticulture at North Carolina State College.

Those who took the tour agreed that irrigation is necessary and that the use of shade, either from trees or slat houses, is essential in this area. All agreed further that a water-holding substance added to the soil along with mulching is necessary because of the dry seasons.

Plans are already being made for next year's tour, which will probably take in the northeastern section of North Carolina.

POTTED GRAFTED STOCK FOR 1955 ORDER NOW, AVOID DISAPPOINTMENT NEXT SPRING

	Per 100
Rivers' Purple Beech	\$65.00
Tricolor Beech	65.00
Weeping Beech (All Beech grafted on <i>Fagus sylvatica</i>).....	65.00
<i>Betula alba</i> (Young's Weeping Birch).....	50.00
Kwanzan Cherry, upright, double pink.....	35.00
Weeping Japanese Cherry, single pink.....	35.00
Flowering Crab Apple (<i>Malus</i>)	
Carmine (<i>atrosanguinea</i>)	35.00
Bechtel (<i>loensis plena</i>)	35.00
Almey	40.00
Double, White-flowering Dogwood	50.00
Pink Dogwood	45.00
Red Dogwood (Prosser)	65.00
Variegated Dogwood (Welch)	60.00
Weeping Dogwood	60.00
Yellow-berried Dogwood (<i>xanthocarpa</i>)	50.00
Compacta Hemlock	50.00
Weeping Hemlock	50.00
<i>Juniperus chinensis viridis</i>	50.00
Frassens Black Norway Maple.....	60.00
Green Japanese Cut-leaved Maple.....	60.00
Monumentale Sugar Maple	60.00
Red Japanese Maple	60.00
Red Japanese Cut-leaved Maple.....	60.00
Dwarf White Pine (<i>nana</i>)	50.00
Japanese Table Pine	50.00
Pyramidal White Pine	50.00
Swiss Stone Pine	50.00
Weeping White Pine	50.00
<i>Pinus parviflora glauca</i>	50.00
Flowering Quinces (<i>Cydonia</i>), choice hybrids	40.00
Charming, pink	
Coral Beauty, rosy-coral	
Snow, white	
Stanford Red, tomato-red	
Koster Blue Spruce	90.00
Nest Spruce (<i>nidiformis</i>)	90.00
<i>Viburnum juddi</i>	50.00
<i>Wistaria floribunda</i>	35.00
The following potted, all on own roots.	
<i>Cotoneaster horizontalis</i>	20.00
<i>Franklinia alatamaha</i>	25.00
<i>Magnolia soulangeana</i>	35.00
<i>Magnolia soulangeana nigra</i>	40.00
<i>Pieris japonica</i> , 4 to 6 ins., from flats	12.50
<i>Prunus laurocerasus schipkaensis</i>	20.00
<i>Pyracantha coccinea lalandi</i>	20.00
<i>Rhododendron roseum elegans</i>	65.00
<i>Rhododendron wilsnii</i> , dwarf, pink flowers	35.00
<i>Viburnum burkwoodi</i>	20.00

TERMS AND CONDITIONS

20% deposit books your order; no orders booked without deposit. Prices are net; no packing charges. All above available after April 1, 1955. Subject to cancellation due to crop failure, fire, strike, etc. Illustrated catalog ready in January containing many other varieties in smaller quantities.

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POMPTON PLAINS 1, N. J.

MUST BE MOVED IN 90 DAYS FOR STREET IMPROVEMENT

LARGE AZALEAS
LARGE HYBRID RHODODENDRONS
Catawbiense Grandiflorum,
6 ft. wide, 8 ft. high
Dr. Dresselhuys,
4 ft. wide, 6 ft. high
Smaller azaleas and 100,000 rooted
azalea cuttings at regular prices.

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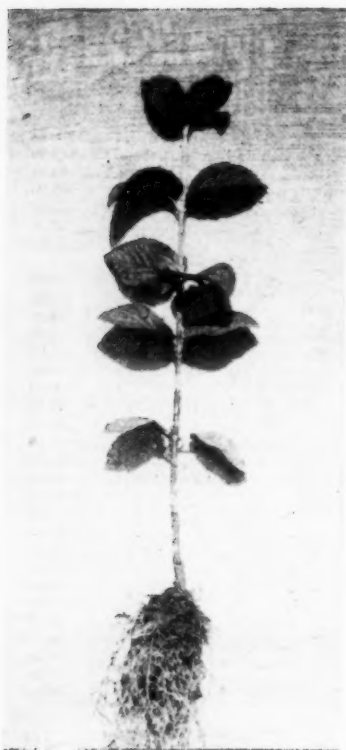
NORTHERN-GROWN
Canadian Hemlock, American
Arborvitae, Balsam Fir.

	Per 100	Per 1000
2 to 4 ins., sdgs.	\$ 1.00	\$ 5.00
3 to 6 ins., sdgs.	2.00	10.00
6 to 9 ins., sdgs.	3.00	20.00
9 to 12 ins., sdgs.	7.00	45.00
12 to 18 ins., sdgs.	9.00	70.00
18 to 24 ins., sdgs.	25.00	.....

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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CHARLOTTE, VT.

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postpaid.
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VIBURNUM LANTANA
2-yr., S.

	Per 100	Per 1000
Viburnum lantana,		
6 to 12 ins., S.	\$10.00	\$ 85.00
12 to 18 ins., S.	15.00	125.00
18 to 24 ins., S.	17.50	150.00
Viburnum dentatum,		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	12.50	100.00
Viburnum dilatatum,		
12 to 18 ins., S.	15.00	125.00
Viburnum lentago,		
6 to 12 ins., S.	7.50	65.00
Viburnum opulus,		
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	15.00	125.00
Viburnum tomentosum,		
6 to 12 ins., S.	10.00	85.00
12 to 18 ins., S.	15.00	125.00
Cotoneaster divaricata,		
T., 6 to 12 ins.	\$10.00	\$85.00

Crataegus phaenopyrum,		
6 to 9 ins., S.	\$ 7.50	\$ 65.00
9 to 12 ins., T.	15.00	135.00
12 to 18 ins., T.	22.50	200.00
Cornus florida,		
12 to 18 ins., root-pruned	10.00	85.00
Ilex verticillata,		
12 to 18 ins., S.	15.00	---
Kolkwitzia amabilis,		
6 to 9 ins., S.	10.00	85.00
9 to 12 ins., S.	15.00	125.00
12 to 18 ins., S.	20.00	175.00
Photinia villosa,		
12 to 18 ins., root-pruned	12.50	100.00
Rhodotypos scandens,		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
Syringa vulgaris,		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
Callicarpa dichotoma,		
6 to 12 ins., S.	7.50	50.00
Red Barberry,		
9 to 12 ins., T.	15.00	125.00
Boston Ivy, 1-yr.	5.00	45.00

All seedlings except Callicarpa grown in rows. We have no evergreen seedlings. Red Barberry, Rhus cotinus seedlings and some other items have been sold out. This is what we still have and we welcome your order.

NEWPORT NURSERY CO.
NEWPORT, MICH.

HURRICANES IN EAST

Considerable damage to nursery stock in eastern New England was done by the two recent hurricanes which hit that area, according to Erwin W. Whitham, Manchester, Conn., secretary of the New England Nurserymen's Association.

In Connecticut, damage was confined generally to the shore area east of New Haven, with losses most severe farthest east. The Rhode Island department of agriculture has issued a statement, listing farm losses in that state at \$1,700,000, with \$200,000 of this estimated to be in nursery stock. This report was issued following hurricane Carol and when losses are compiled from hurricane Edna the figure is likely to be higher. Losses in eastern Massachusetts and on Cape Cod are reported by Mr. Whitham to be great, especially in the case of larger stock.

At the Arnold Arboretum, Jamaica Plain, Mass., it was estimated that nearly 400 trees were felled by the storm, about one third of the number of trees uprooted by the severe hurricane of 1938. Much pruning work will have to be done in the tops of still other trees. Shrubs and low-growing trees were not much damaged.

A less serious picture is painted for Long Island by Clarence E. Lewis, Long Island Agricultural and Technical Institute, Farmingdale, N. Y. Mr. Lewis reports that plants in nursery rows were practically unharmed with the only noticeable losses being the breakage of a few small branches of trees and the loosening of a number of trees, which had to be tamped back into place. The maximum force of the storms passed over the extreme eastern end of Long Island, an area in which there are few nurseries.

NEBRASKA FIELD DAY

Approximately 50 persons attended the summer field day held August 30, at Lincoln, Neb., by the Nebraska Association of Nurserymen. Recent improvements in Lincoln nurseries were noted by the nurserymen taking part in the tour, improvements which made products more accessible to customers.

Nurserymen met at Nebraska Nurseries and visited facilities of this firm during the morning, later touring the Williams Nurseries, Campbell's Nurseries and Haggerty Landscape Nursery. Highlights of the afternoon were tours of Pioneers park and of the campus of the University of Nebraska. C. W. A.

WHOLESALE PRICE LIST Fall, 1954—Spring, 1955

All prices B&B

1000 COLORADO SPRUCE	Each
2 to 3 ft., green	\$ 3.00
3 to 4 ft., green	4.50
4 to 5 ft., green	6.00
2 to 3 ft., blue	4.50
3 to 4 ft., blue	6.50
4 to 5 ft., blue	10.00
1000 AMERICAN ARBORVITAE	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
1000 PFITZER JUNIPER	
18 to 24 ins.	3.50
24 to 30 ins.	4.50
30 to 36 ins.	5.50
100 WHITE PINE	
4 to 5 ft.	3.50
5 to 6 ft.	4.00
800 EUONYMUS COLORATUS,	
9 to 12 ins., pots	.40
1000 EUONYMUS COLORATUS,	
12 to 18 ins., pots	.75
50 DOUGLAS FIR, bushy,	
2 to 3 ft.	3.00
3 to 4 ft.	4.00
4 to 5 ft.	5.00
40 CANADIAN HEMLOCK,	
2 to 3 ft.	3.00
80 HETZ JUNIPER, 24 to 30 ins.	4.00
100 MUGHO PINE, 12 to 15 ins.	2.25
100 SCOTCH PINE, 2 to 3 ft.	2.00
50 BLACK HILLS SPRUCE,	
18 to 24 ins.	2.00
40 UPRIGHT BUSH YEW,	
30x30 ins.	10.00
30 UPRIGHT BUSH YEW,	
36x36 ins.	13.50

Plenty of rain with corresponding growth and fine balling conditions give us the finest supply of B&B evergreens ever.

**WHITE BIRCH, MOUNTAIN ASH,
EUROPEAN BEECH, GINNALA
MAPLE, RUSSIAN OLIVE, ETC.**

SPRUCE and PINE CHRISTMAS TREES

Shredded Peat Moss, single yd. \$6.00
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Order today—
instructions
included!
52 gals., \$5.50 gal.
5 gals., \$6.15 gal.
1 gal., \$6.60
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**NURSERY SPECIALTY
PRODUCTS, INC.**
CROTON FALLS, N. Y.



★ quantities are limited

Premium Value Christmas Trees

ROYAL SCOTCH PINE } 600 to 800
AND RED PINE . . . } trees per carload

Custom grown from selected stock these trees have unusually good color and development. Careful shearing has produced dense foliage and preferred shape. Height varies from 5 to 8 feet

DOUGLAS FIR } 2,300 trees
 per carload

The ideal growing conditions of the Pacific Northwest have produced verdant green foliage, and vigorous dense growth. Assorted sizes, 5½ to 9 feet.

All trees offered here are packed loose, NOT BUNDLED. Air circulates in the car; they arrive sweet and fresh, needle drop is prevented, they retain their shape and fluffiness.

Look for the Hofert tag on every tree, your assurance of painstaking quality since 1880.

Wire, phone, or write for prices. 50c per tree deposit required on all orders. Deposit must be made before November 1st

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PITTSBURGH 3, Pennsylvania
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 516 Sixth Avenue South
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SOUTHWESTERN NOTES

Roy Cooper has resigned his position as manager of the Myers Nursery, Dodge City, Kan., and will be employed in a flower shop at Dodge City.

With a score of 94½ out of a possible 100, Stanley McLane, J. C. Nichols Investment Co., Kansas City, Mo., won first place in a shade tree identification contest at the National Shade Tree Conference at Atlantic City, N. J., recently. This is the fourth consecutive year that Mr. McLane has won first place.

Evert Asjes, Jr., Rose Hill Nurseries, Kansas City, Mo., accompanied by Mrs. Asjes and their two sons, Evert and Duncan, returned late in August from a two months' automobile tour of Europe. Among the countries visited were England, Holland, France, Italy and Germany. Son Evert is entering Cornell University this fall to study landscape architecture.

Jack Hill, formerly associated with the Folger Nursery, Wichita, Kan., has purchased an acre of ground on West Douglas street, Wichita, to establish a garden center. A greenhouse, 25x60 feet was already on the property. An office and lath house have been constructed and ample

parking space provided. Nearby is a new shopping center and a housing development.

Chris Munz, Midwest Nursery Co., Kansas City, Mo., recently appeared on a television program to tell about his highly successful fishing trip to Canada. And he had the fish there to prove it!

OWEN DENIED NEW TRIAL

Judge Charles G. Briggie, of the United States District court, Springfield, Ill., in a special hearing September 2, overruled a new trial motion made by James W. Owen, Bloomington mail-order nursery operator. On August 6, Owen was convicted of using the mails to defraud in the sale of nursery stock, and, on August 25, he was sentenced to one year's imprisonment with an accompanying fine of \$17,000.

The judge gave the sentenced man until November 1 to straighten out his affairs.

TURF management and landscape maintenance will be among the eight agricultural short courses offered this fall at Rutgers University, New Brunswick, N. J. Registration day for the 10-week courses is October 11.

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Our Fall 1954—Spring 1955 Catalog is in the mail. It offers a complete line of roses, ornamentals, hedge plants, fruit trees, vines and evergreens. Drop us a line if you don't receive your copy within the next few days.

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Manchester, Connecticut
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Shrubs

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Evergreens

EVERGREENS FOR THE MIDWEST

Fall, 1954—Spring, 1955

JUNIPERS

BLUE HETZ JUNIPER , heavily sheared to pin-cushion type form.	Each
18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
30 to 36 ins.	4.50
BURK JUNIPER , grafts.	
3 to 4 ft.	4.00
CANAERT JUNIPER , grafts.	
3 to 4 ft.	4.00
COMPACT PFITZER JUNIPER , good, compact type.	
15 to 18 ins.	2.50
18 to 24 ins.	3.00
24 to 30 ins.	3.75
30 to 36 ins.	4.50
DUNDEE JUNIPER , grafts.	
3 to 4 ft.	4.00
IRISH JUNIPER , heavy, well formed.	
3 to 4 ft.	2.50
4 to 5 ft.	3.00
KETELEER JUNIPER , grafts.	
3 to 4 ft.	4.00
4 to 5 ft.	5.00
PFITZER JUNIPER , extra nice, heavily sheared and compact.	
15 to 18 ins.	2.25
18 to 24 ins.	2.75
24 to 30 ins.	3.50
30 to 36 ins.	4.25

BROAD-LEAVED EVERGREENS

BERBERIS JULIANAE .	
15 to 18 ins.	2.00
18 to 24 ins.	2.50
EUONYMUS COLORATUS , Clover-set pots, multistemmed, heavy. . .	1.50
EUONYMUS RADICANS VEGETUS , Clover-set pots, multistemmed, heavy. . .	1.50
ILEX ROTUNDIFOLIA , well-filled plants.	
12 to 15 ins.	1.50
15 to 18 ins.	2.00
*MAGNOLIA GRANDIFLORA .	
18 to 24 ins.	2.00
MAGNOLIA SOULANGEANA .	
2 to 3 ft.	3.00
3 to 4 ft.	4.00
MAGNOLIA SOULANGEANA NIGRA . Magnolias will be dug early, held on cold storage at nursery until shipped.	
2 to 3 ft.	3.00

MISCELLANEOUS

BALD CYPRESS , deciduous. Can supply heavier sizes if wanted.	
2 1/2 to 3 ft.	2.50
3 to 4 ft.	3.00
4 to 5 ft.	4.00
ILEX DECIDUA , red berries and deciduous.	
male plants, 4 to 5 ft.	3.00
female plants, 4 to 5 ft.	3.00
*GOLDEN WEEPING WILLOW , heavy, dug bare root.	
6 to 8 ft.	1.50

NOTE: Stock will be burlapped with treated, rot-resistant burlap, dyed green, unless regular burlap is requested. 5% discount allowed on orders paid before or at delivery; otherwise 2% 10 days. Net 30 days. On orders to be held for spring delivery, a payment of 1/3 of order may be requested.

WE INVITE YOUR INSPECTION OF THIS STOCK IN THE FIELDS.

ECONOMICAL TRUCKLOAD DELIVERIES CAN BE ARRANGED

All stock dug B&B, with digging forms assuring uniform solid balls.

Prices F.O.B. Nursery.

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Telephone: Carbondale, Ill.

Texas Rose Meeting

The use of fungicidal sprays on roses and irrigation for roses grown in the east Texas area were featured topics on a field trip held by the Texas Rose Research Foundation at its quarterly meeting, held September 11, at Tyler, Tex. Dr. E. W. Lyle, plant pathologist for the foundation, conducted the tour of five rose nurseries in the Tyler area, where field observations and demonstrations were held on research experiments in progress under his direction.

In midafternoon about 50 members and guests of the foundation left the new Garden Center building of the Tyler municipal rose garden to visit the first rose field, that of B. L. Ginn & Son, where an experiment using a potential new rootstock for roses was pointed out. This test proved that *Rosa fortuneana*, an Australian-type rootstock, is less satisfactory than *Rosa multiflora* under east Texas conditions. The survival of the *R. fortuneana* cuttings which had budded and grown into bushes amounted to only 8 per cent, while the *multiflora* showed 49 per cent survival.

An extensive spray test with the fungicides Captan and copper dihydrazinium sulphate was made at the Ginn field, but, because of the dry weather, no black spot disease was present to give a fair measure of fungicidal effectiveness of the two compounds. It was evident that no injury had resulted from their use, even with applications at high temperatures. The Ginn field was one of the first in the area in which a conversion from dusting to spraying was made for fungicidal treatment over the entire field.

After leaving the Ginn field, the group toured John Zorn & Sons' rose field, where observers saw results of increased plant growth of the rose variety Peace, induced by nine spray applications of Captan fungicide at 2-week intervals. The rate of application was approximately one pound of Captan to 50 gallons of water. About 40 gallons of the fungicide in solution will cover an acre of rosebushes at one application.

At the third rose field, that of Dick Atwood, a similar growth stimulation was observed from the Captan spray used on the variety Cavalcade. This particular site was selected because of somewhat low ground and the possibility of cercospora leaf spot, often called false black

EUONYMUS AND COTONEASTER

Particularly nice plants which benefited by our 15.2 inches of rainfall in June, July and August.

Each at Each at
100 1000
rate rate

EUONYMUS ALATUS COMPACTUS

2-yr., pots	\$0.22	\$0.20
4-yr., T., 8 to 10 ins. ....	.40	.35
4-yr., T., 10 to 15 ins. ....	.45	.40
*5-yr., T., 15 to 18 ins. ....	.70	.65

EUONYMUS RADICANS ERECTUS

2-in. pots .....	.17	.15
*3-yr., T., 12 to 15 ins. ....	.45	.40
*3-yr., T., 15 to 18 ins. ....	.65	.60

COTONEASTER APICULATA

2-in. pots .....	.25	.22
2-yr., T., heavy. ....	.45	.40
3-yr., T., heavy. ....	.60	.55

*The largest of these varieties are suitable for Cloverset potting or cans.

Quick shipment fall or spring. Bare-root. Minimum order 50 plants of a variety, 100 plants total. Usual catalog terms.

BERRYHILL NURSERY CO.

P. O. Box 696 SPRINGFIELD, O.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO. ONARGA, ILL.

DWARF BLUE-LEAVED ARCTIC WILLOW (Salix Purpurea Nana)

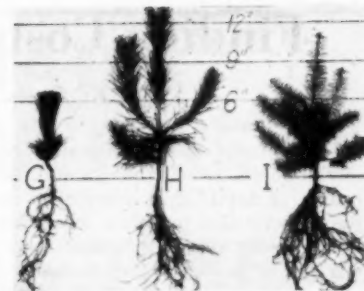
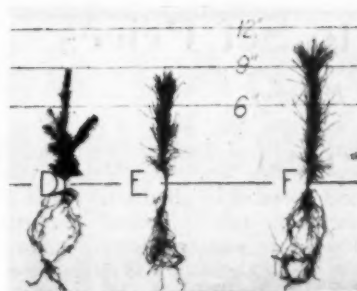
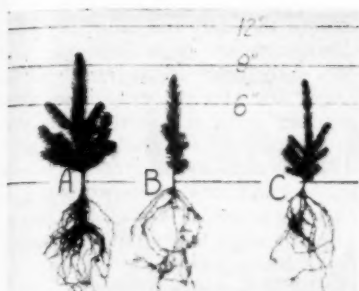
Beautiful, new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness. 3 to 12 ins., 1-yr. stock, \$12.00 per 100. \$100.00 per 1000.

BEARDSLEE NURSERY PERRY, O.

LANDSCAPING SIZES

Colorado Blue Spruce, excellent shape, many good shiners. 2 1/2 to 7 ft., B&B, \$2.00 per ft. Pyramidal Arbutus, sheared and compact, 3 1/2 to 7 ft., B&B, 80¢ per ft. Azalea Mollis (Red Flame), 9 to 24 ins. Also Pfitzer, Yews, Hemlocks.

Stock via purchaser's truck.
SYLVANIA NURSERY & PEAT CO.
State Rt. 351 NEW GALILEE, PA.



Fall Liners and Christmas Tree Stock Fall, 1954

	Per 100	Per 1000	Per 10,000
Colorado Blue Spruce, 3-2, 9 to 12 ins.	\$35.00	.....	.....
A Colorado Blue Spruce, 3-2, 6 to 9 ins.	18.00	\$150.00	.....
Colorado Blue Spruce, 3-2, 4 to 6 ins.	12.00	80.00	.....
Colorado Blue Spruce, 3-0, 3 to 5 ins.	6.00	30.00	.....
B Colorado Blue Spruce, 3-0, 5 to 10 ins.	10.00	65.00	.....
White Spruce, 3-0, 3 to 5 ins.	4.00	20.00	.....
C White Spruce, 3-0, 5 to 10 ins.	8.00	40.00	.....
Norway Spruce, 3-0, 3 to 5 ins.	4.00	20.00	.....
D Norway Spruce, 3-0, 5 to 10 ins.	8.00	38.00	.....
Riga Scotch Pine, 2-1, 3 to 8 ins.	10.00	45.00	.....
* E Riga Scotch Pine, 2-0, 3 1/2 to 8 ins.	7.50	26.00	\$24.00

	Per 100	Per 1000	Per 10,000
* Riga Scotch Pine, 2-0, 2 to 3 1/2 ins.	\$ 3.00	\$ 14.00	\$12.00
* F Riga Scotch Pine, 2-0, 6 to 10 ins.	8.00	36.00	35.00
* Riga Scotch Pine, 2-0, 3 to 6 ins.	5.00	22.00	21.00
G Austrian Pine, 2-0, 3 to 6 ins.	6.00	25.00	24.00
H Austrian Pine, 2-2, 8 to 12 ins.	12.00	90.00	.....
Mugho Pine, 3-0, top sheared to about 3 ins.	5.00	30.00	25.00
Douglas Fir, Rocky Mt. type, 2-0, 3 to 8 ins.	6.00	28.00	25.00
Douglas Fir, taxifolia glauca, 2-2, 6 to 9 ins.	10.00	75.00	.....
I taxifolia glauca, 2-2, 9 to 12 ins.	15.00	125.00	.....

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 5 per cent discount for cash with order on fall orders. On spring orders, 5 per cent discount if paid in full December 1, 1954.

25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00.

(Packing charge included in price of trees.)

* Prices available on request for 50,000 or more.

MATTHEWS NURSERY

HARBOR SPRINGS, MICH.

Telephone 123 or 732

spot, being present. But, here again, the prevailing dry summer weather conditions prevented the occurrence of the disease even on the unsprayed bushes of the area. Other rose varieties treated in this field, with a noticeable improvement in growth, were World's Fair, Better Times and Golden Ophelia.

Next on the tour was a visit to the J. E. Whiteside rose field, where a field-type tractor-sprayer was observed by the group and the actual spraying operation was demonstrated by Mr. Whiteside.

The Whiteside field was cited as another example where Captan spraying has taken the place of the usual application of a dust fungicide for general field treatment. Uniformity of well-shaped bushes was noted in particular. And, again, because of the weather conditions and the systematic use of the Captan fungicide, not a single leaf with black spot could be found in the entire field.

The last place visited on the tour was the rose field of Fred Walker. Noticeable in his field was the beneficial effect of four irrigations, in which water was pumped from nearby Ray creek and carried by gravity along the rose rows.

Also at the Walker field, three late

season applications of Captan spray were noted to have given some growth stimulation in three of seven varieties of roses tested when dry weather was found to be slowing up the response in other field tests. The varieties showing the greatest growth and blooming response to a combination of Captan spraying and irrigation were The Doctor and Briarcliff; those with the least growth response were Ami Quinard and Luxembourg.

Returning from the field tour at 6:30 p. m., the group was served a barbecue supper at the Garden Center building, and this was followed by a business meeting and research progress reports. The president of the foundation, Hewitt Wilson, C. E. Wilson Nurseries, Jacksonville, welcomed all guests and commended the rose growers for their cooperation in working with the foundation's research program. Present at the meeting was Albert Hines, certified public accountant, who is now the salaried secretary for the foundation, having been added to the staff at the recent annual meeting.

A PERENNIAL stock nursery was recently opened by Mrs. Irene Dondit, 19745 Lexington, Detroit, Mich.

NORTHERN-GROWN STOCK

Well-graded; well-packed. Guaranteed to please.

TRANSPLANTS

	Per 100	Per 1000
Colorado Blue Spruce		
4-yr., 2-2, 6 to 8 ins.	\$15.00	\$140.00
4-yr., 2-2, 4 to 6 ins.	12.00	100.00
Norway Spruce		
4-yr., 2-2, 10 to 12 ins.	15.00	140.00
8 to 10 ins.	12.00	100.00
6 to 8 ins.	8.00	75.00
Black Hills Spruce		
4-yr., 2-2, 6 to 8 ins.	12.00	100.00
4 to 6 ins.	10.00	80.00
Mugho Pine		
4-yr., sheared, 4 to 6 ins.	18.00	.....

SEEDLINGS

	Per 100	Per 1000
Colorado Blue Spruce		
3-yr., 4 to 6 ins.	4.00	35.00
2-yr., 2 to 4 ins.	3.00	25.00
Norway Spruce		
3-yr., 8 to 12 ins.	4.00	35.00
4 to 8 ins.	3.50	30.00
White Spruce		
3-yr., 8 to 12 ins.	4.00	35.00
4 to 8 ins.	3.50	30.00
Mugho Pine, sheared		
3-yr., 4 ins.	4.00	35.00
Austrian Pine		
3-yr., 8 to 12 ins.	4.00	35.00
4 to 8 ins.	3.00	25.00
Scotch Pine, Riga		
3-yr., 8 to 10 ins.	3.00	25.00
4 to 8 ins.	2.50	20.00
Ponderosa Pine		
3-yr., 10 to 12 ins.	3.50	30.00
8 to 10 ins.	3.00	22.50
American Arborvitae		
3-yr., 4 to 8 ins.	3.50	30.00
2-yr., 2 to 4 ins.	2.50	20.00
Douglas Fir, S. Mt.		
2-yr., 4 to 6 ins.	3.50	30.00

Write for prices on 5000 or more.
Shipment Sept. 20 to Nov. 1 for fall.

J. R. PALMER & SON
BLACKDUCK, MINN.

Finding Costs to Set Prices

By Ernest F. Durrant

Is it because of the inspiration of working with growing plants and the beauty of nature that many of us in the nursery field too often lose sight of the profit objective? Many who engage in business for themselves are extremely ambitious and highly skilled at their profession or trade, yet only earn a fair living, even though their investment is adequate to bear greater returns.

Although much of this is due, I believe, to the lack of knowledge of the fundamentals of simple cost accounting, a considerable portion of our industry is constantly demoralized by those who seem to be able to guess instinctively at profitable prices at the beginning of the season, but who are obviously impelled to cut prices at the end of the season.

Those who are able to make the right guesses consistently should not waste their time in business. They might do better on Wall street.

Those who cannot rely on their own guesses often have more faith in the prices in the catalog of a competitor—who may have consulted still another list—each in turn attempting to outdo the other at the expensive hobby of philanthropy.

And there are those who, regardless of the seasonal nature of this business and the limited turnover of labor and materials it affords, not only limit the number of men they employ, for one reason or another, but at the same time plod along on a policy of "sell cheaper than the next guy."

If we are going to maintain a winning streak and consistently realize a profit in the more competitive years ahead, we shall have to do our best by everlastingly trying to do better. This is the way efficiency is accomplished.

It is just common sense applied to all our everyday operations. That is, doing a thing better in a more economical way—the direct, natural and right way, rather than the careless and roundabout way. Efficiency can be practiced by all who work for a living.

If 10 men have a certain operation to perform, day in and day

Based on talk by owner of Durrant Nurseries, Grand Rapids, Mich., before the National Landscape Nurserymen's Association, accompanied by his display and explanation of numerous record forms he employs.

out, a few of them will be found to execute the work with greater ease and speed than all the rest, and of these one will be found who with less effort and time seems to have the instinctive knack of accomplishing the work better. This is as true of cost finding as it is of the manual and mechanical operations of direct nursery production.

Efficient methods should be shared and made known to all, thereby benefiting and elevating the entire industry. Success and bigness are no longer measured by the secret methods a concern hides from its competitors. Every possible improvement in our business in all its aspects should be made known and considered, instead of being evaded, until, because of necessity, it must receive long-awaited recognition.

In spite of labor's constant de-

mands, the steel and automobile industries, with their intricate and ever-changing mechanical operations, are able to determine their accurate costs and seem to be able to satisfy their stockholders as well. The determination of accurate nursery and landscape costs is simple by comparison, if we will but recognize the need and adopt a planned cost-finding procedure.

I have heard it said that we in this industry, among others, do not know our costs. I do not entirely agree. I am sure we know what our plant materials are going to cost before we sign the wholesale grower's order book. We know our labor costs us so much an hour, gasoline so much a gallon, burlap so much a square, telephone so much a month, and so on.

But I wonder how many of us really know what the unit cost of our plants is, when the plants are ready for sale and before the profit is added.

I am quite sure that it has not

CHOICE STOCK

	Per 100	Per 1000
Colorado Blue Spruce, (2-0), 3 to 5 ins.....	\$ 4.50	\$25.00
6 to 8 ins.....	5.50	35.00
White Spruce, (2-0), 3 to 5 ins.....	4.00	20.00
6 to 8 ins.....	5.00	30.00
Norway Spruce, (2-0), 2 to 4 ins.....	3.00	15.00
(2-2), 3 to 5 ins.....	5.50	35.00
(2-2), 6 to 8 ins.....	7.00	50.00
(2-2), 8 to 10 ins.....	8.50	65.00
Austrian Pine, (2-0), 2 to 4 ins.....	3.00	15.00
(3-0), 8 to 10 ins.....	5.50	35.00
(2-2), 6 to 8 ins.....	6.50	45.00
(2-2), 8 to 10 ins.....	8.50	65.00
Scotch Pine, (2-0), 3 to 5 ins.....	3.00	15.00
(2-0), 6 to 8 ins.....	4.50	25.00
(2-2), 4 to 8 ins.....	5.50	35.00
(2-2), 8 to 10 ins.....	7.00	50.00
Red Pine, (3-0), 8 to 10 ins.....	5.50	35.00
Mugho Pine (Dwarf Tyrolean), (3-0), 2 to 4 ins.....	4.00	20.00
White Birch Seedlings (Alba Pendula), (2-0), 12 to 15 ins.....	10.00	.....
Jack Pine, (3-0), 12 to 15 ins.....	6.00	35.00
Scotch Pine and Norway Spruce, bedding stock, (2-0), up to 2 ins.....	.....	7.50

Bedding stock, spring only, spruce bedders should be shaded for one year.

TERMS

No order can be accepted for less than 50 of one variety and size. 50 and 500 of a size and kind sold at the 100 and 1000 rate respectively.

Evergreens can be shipped after Oct. 1. Orders may be booked, one-half cash, balance C.O.D. We ship express, unless otherwise stated.

Our seedlings are grown in high humus, (1 yd. peat per 100 sq. ft.) low density beds (50 to 60 per sq. ft.) assuring sturdy stem and fibrous roots.



ARMINTROUT'S EVERGREEN NURSERY
ALLEGAN, MICH.

Phone 865-J

ENGELMANN SPRUCE—DOUGLAS FIR

2 to 8 ft., B&B northern-grown and hardy

Nursery Division of

YULE TREE FARMS, AKELEY, Warren Co., PA.

Specimen Stock of Many Varieties for Landscape and Live Christmas Trees

MIXED CARLOADS CANADIAN SCOTCH PINE AND BALSAM CHRISTMAS TREES

NOW as a Christmas Tree retailer, you can buy a mixed carload of Canadian Scotch Pine and Balsam trees. This is the first time you have ever had an opportunity to purchase a mixed car of top-quality, cut Canadian Christmas trees.

The Balsam trees are cut, bundled by our own men under our personal supervision and shipped direct from the highlands of Quebec to our plantation in Ontario, where each car is loaded with sheared, green Scotch Pine trees. Each car will be filled with approximately 225 bundles of top-quality Balsam trees and approximately 500 top-quality Scotch Pine averaging 5½ to 7 ft. in size.

Also available, 2 or 3 full cars of Balsam trees.

Write for quotations, delivered to your destination. 25 per cent deposit required with all orders.

SMITH'S FOREST TREE NURSERY

P. O. Box 215, MAGNOLIA, O.

HOME OF OHIO'S FINEST FOREST TREE NURSERY

always been too clear, to some of us at least, just what accounts make up the overhead expense and what accounts make up the selling expense.

Like most other landscape nurserymen, in the past several years we have not been able to estimate on all the work that was ours to be had. And yet we did not consider it good business to engage a representative to secure landscape work for us without equipping him with estimate charts that would enable him to obtain landscape jobs and, at the same time, show a profit. Therefore we developed our cost-finding procedure because of necessity and by application of the fundamentals of cost finding.

Consider Overhead

The prices we receive for the plants we grow and the materials and labor we sell must not only cover the direct costs of labor and material, but must recover all of our operating or overhead expense as well, before a profit is finally realized.

The direct unit costs of labor and material are always apparent from our payroll records and invoices. The overhead expense, and the selling expense for landscaping, the selling expense for cash and carry and the selling expense at wholesale

—for my firm engages in all three—often become confusing and difficult to determine; not to mention their fair and accurate distribution. Those who engage in landscaping planting, do cash and carry retailing and conduct a wholesale business usually have no alternative but arbitrarily to establish selling prices in the different departments by smearing on the overhead cost, unless some accurate costing method is devised. With the proper segregation of the cost of nursery production, the general administrative expenses and the selling expenses in the different departments, a fair and profitable selling price can be readily determined in each department.

Think of the total overhead expenses of operating your business for a year as being fairly and accurately applied so that each sale will do its fair share in recovering these expenses before it is expected to produce a profit. Each sale or job, whether large or small, whether of labor or material, should show a profit. Profits, like pleasant memories, are arranged for in advance, rather than left to chance.

Through our cost-finding forms and procedure we record all direct labor costs and all indirect labor

Wholesale to the Trade Only

MULTIFLORA ROSE

(Rosa multiflora japonica)

Thorny, upright type, propagated from mature midwest fences.

Our stands have never been better and, with our irrigation and fertilization program, we hope and believe we will produce exceptionally fine plants this year. Each year we grow several million seedlings and every year for the past 10 years we have been short in the spring. We urge you to cover your requirements promptly.

Per 1000

2/16 to 3/16-in. cal., 10 to 15 ins. \$15.00

3/16 to 1/4-in. cal., 15 to 18 ins. 22.00

Plants will be top and root trimmed prior to shipping. All prices F.O.B. Elsberry. No packing charge.

FORREST KEELING NURSERY

ELSBERRY, MO.

MISSOURI
GROWN
IS HARDY...



FALL LINERS

Juniper Grafts	Each
Blue Haven	\$0.45
Pathfinder	
Canaerti	
Sneidi	
Welchi	
Mascula	
Moffiti	

(On Juniperus virginiana understock)

Pfitzer liners.....\$0.20

ARBORVITAE, B & B

Berckmans Golden	Each
18 to 24 ins.....	\$1.75
24 to 30 ins.....	2.00

Excelsa	
24 to 30 ins.....	1.75
30 to 36 ins.....	2.00

Brewers Hybrid	
24 to 30 ins.....	1.75
30 to 36 ins.....	2.00

Place your order now for
Juniper grafts for spring, 1955.

(Grafted on Juniperus
virginiana understock)

\$0.35 each

Keteleeri
Blue Haven
Pathfinder
Canaerti
Glauca
Hilli
Sneidi
Welchi
Mascula
Arizona Cypress on
Chinese Arborvitae

Total minimum order,
100 grafts.

M. MEYER NURSERY
5439 S. Hydraulic
WICHITA 15, KAN.

costs, determine and apply the overhead to the individual plants in the growing blocks, determine and apply the selling mark-ups and plan a profit for the year.

Direct labor is divided into three classes: Nursery production time includes work performed on growing blocks, nursery digging and nursery potting. Separate record is kept of all landscape labor or off-the-nursery time sold as contracted for. On different forms is recorded, time spent on material procurement, such as top-soil, Christmas trees, construction of guard rails, etc. Indirect labor or time is entered separately.

All time is picked off these record sheets each day and entered on the weekly payroll sheet. Annual figures for a recent year showed approximately 40 per cent labor sales, 30 per cent plant sales, of which only five per cent was cash and carry and five per cent wholesale to local gardeners, and 30 per cent in top-soil, peat, seeds and miscellaneous materials.

In conclusion, I am sure we can observe that the man who guesses at selling prices is like the mechanic who consults the instruction manual after the assembled equipment fails to perform.

Those who will appropriate the time and expense to devise a cost-finding procedure that fits their particular needs and manner of operation, and will faithfully carry it out, will, in a short time come to regard it as a profitable routine.

Stan Says —

Nothing is easier to propagate than a willow, and Salix sepulcralis (Solomon weeping willow) is the best upright grower of the large willows. Its trunk often becomes 36 inches in diameter. Willows should be planted in the spring. You can plant a willow bare root on Decoration day or on the Fourth of July. The secret is to dig the tree in the nursery the first thing in the spring before growth starts; cut in the side branches to within three to six inches of the main stem, and heel it in. About every three weeks take the willow out of the ground and heel it in again. In this way the plant becomes accustomed to being moved. If your customer has a large yard and wants a willow, plant this variety.

This tree is sometimes pruned back at the top when it attains a height of about 60 feet, but this practice shortens the life of this tree. You cannot grow grass under this tree.

POTTED LINERS

For Fall, 1954—Spring, 1955 Shipment

Heavy, well-rooted plants.

2 1/4 and 2 1/2-in. pot grown.

	Per 100
Euonymus Radicans Variegated.....	\$25.00
Euonymus Vegetus	18.50
Juniperus Depressa Plumosa	20.00
Juniperus Glauca Hetzi	20.00
Juniperus Pfitzeriana	25.00
Taxus Cuspidata	25.00
Taxus Hicksi	27.50
Thuja Pyramidalis	22.50
Thuja Wareana	22.50
Thuja Woodwardi	22.50

*THE Hollandia
Gardens*

SOUTH VIENNA, O.

FALL, 1954

Fruit trees, shrubs, shade trees,
ornamental trees, evergreens, and taxus.

QUANTITIES IN:

Arborvitae, Aurea Nana
Arborvitae, Dark Green American
Berberis Mentorensis
Birch, Weeping Cutleaf
Cornus Florida
Cotoneaster Divaricata
Cotoneaster Opiculata
Crab Apple, Flowering
Euonymus Alatus Compactus
Euonymus Patens
Euonymus Vegetus
Juniperus Canaerti
Juniperus Columnaris
Juniperus Glauca
Juniperus Keteleeri
Juniperus Pfitzeriana
Maple, Silver
Privet, Amur River North
Prunus Newport
Willow, Thurlow

C. M. HOBBS & SONS, INC.

BRIDGEPORT, IND.
Established 1875

Specimen Landscape Materials Our Specialty ... TAXUS



THE W. A. NATORP CO.

4400 Reading Rd. Cincinnati 29, Ohio

Visit our nurseries when in Cincinnati

LINERS FROM OPEN BEDS AND FIELD ROWS

All outside-grown — in the open air — all strong and tough! They have to be to grow right out in the full sun.

Nothing shade-grown except the rooted cuttings and the Mahonia Bealei seedlings which are under light shade.

All go through the winter unprotected and dormant—ready to burst into normal growth for you next spring.

PRODUCED BY THE NEW PHYTOTTEKTOR SYSTEM

BG means bed-grown.
F means field-grown.
RC means rooted cutting.
S means seedling.
SWC means softwood cutting.
T means transplanted.

All prices are given in cents per each.

ABELIA EDWARD GOUCHER—T, F, 8 to 12 ins., 18c; 12 to 15 ins., 22c; 2-yr., T, F, 15 to 18 ins., 30c.
ABELIA GRANDIFLORA—T, F, 8 to 12 ins., 15c; 12 to 18 ins., 20c; 2-yr., T, F, 18 to 24 ins., 30c.
BERBERIS JULIANAE—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 22½c; 9 to 12 ins., 30c.
BERBERIS MENTORENSIS—RC, 8c; T, F, 6 to 9 ins., 15c; 9 to 12 ins., 20c; 2-yr., T, F, 12 to 15 ins., 25c.
BERBERIS SARGENTIANA—T, F, 6 to 9 ins., 20c; 9 to 12 ins., 25c; 12 to 15 ins., 30c.
BUXUS SEMPERVIRENS—T, F, 4 to 6 ins., 10c; 6 to 8 ins., 15c.
CHAENOMELES—(CYDONIA), hybrid, upright, rich red, nonfruiting—BG, 6 to 9 ins., 10c; 9 to 12 ins., 15c.
CHAENOMELES—(CYDONIA), hybrid, deep pink—BG, 6 to 9 ins., 10c; 9 to 12 ins., 15c.
CHAENOMELES—(CYDONIA) LAGENARIA ALBA, pure clear white—BG, 6 to 9 ins., 12c; 9 to 12 ins., 17½c.
ELAEAGNUS FRUTLANDI—BG, 6 to 9 ins., 12c; T, F, 9 to 12 ins., 16c; 12 to 15 ins., 20c.
ELAEAGNUS PUNGENS REFLEXA—T, F, 9 to 12 ins., 16c; 12 to 15 ins., 20c.
EUONYMUS ALATUS COMPACTUS—RC, 7c.

EUONYMUS FORTUNEI CARRIEREI—(True)—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 20c.
EUONYMUS JAPONICUS—T, F, 8 to 12 ins., 20c.
EUONYMUS KLAUSCHOVICUS, Largeleaf patens—RC, 6c; T, F, 9 to 12 ins., 15c; 12 to 15 ins., 20c; 2-yr., T, F, 12 to 15 ins., 25c; 15 to 18 ins., 35c.
EUONYMUS KLAUSCHOVICUS, Small-leaf patens—RC, 6c; T, F, 9 to 12 ins., 15c; 12 to 15 ins., 20c; 2-yr., T, F, 15 to 18 ins., 35c.
GINKGO BILOBA—S, F, 4 to 6 ins., 6c; 6 to 8 ins., 8c; 2-yr., S, F, 12 to 18 ins., 17½c; 18 to 24 ins., 25c.
HYDRANGEA P.G.—T, F, 12 to 15 ins., 15c.
ILEX CORNUTA—RC, 8c; BG, 6 to 8 ins., 12½c.
ILEX CORNUTA BURFORDI—RC, 8c; BG, 6 to 8 ins., 12½c; 8 to 12 ins., 15c.
ILEX CRENATA CONVEXA (BULLATA)—RC, 7c.
ILEX CRENATA ROTUNDIFOLIA—RC, 7c; BG, 4 to 6 ins., 12½c; 2-yr., BG, extra-heavy 8 to 12 ins., 30c.
ILEX HOWARDI—RC, 15c; BG, 6 to 9 ins., 20c; 9 to 12 ins., 30c.
ILEX VOMITORIA FEMINA—T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.
JASMINUM FLORIDUM—BG, 6 to 8 ins., 7c; 8 to 12 ins., 10c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.
JASMINUM NUDIFLORUM—BG, 6 to 8 ins., 7c; 8 to 12 ins., 10c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.
NOTE—All Juniperus from small, greenhouse type, cuttings transplanted to field.

JUNIPERUS HETZI—T, F, 9 to 12 ins., 22½c; 12 to 15 ins., 35c.
JUNIPERUS HORIZONTALIS PLUMOSA, Andorra—T, F, 6 to 9 ins., 17½c; 9 to 12 ins., 25c.
JUNIPERUS FETTERERIANA, blue—T, F, 6 to 9 ins., 22½c; 9 to 12 ins., 30c; 12 to 15 ins., 45c.
JUNIPERUS FETTERERIANA, green—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 20c; 9 to 12 ins., 27½c; 12 to 15 ins., 40c.
LIGUSTRUM LUCIDUM—BG, 6 to 9 ins., 15c; 9 to 12 ins., 20c; T, F, 12 to 18 ins., 30c.
LIGUSTRUM SINENSE PENDULUM (Weeping Privet)—BG, 6 to 8 ins., 8c; 8 to 12 ins., 10c.
MAHONIA BEALEI—1-yr., seedlings suitable for potting, fall, 5c; spring, 6c.
PRUNUS CAROLINIANA (Laurel Cherry)—S, F, 4 to 8 ins., 6c; 8 to 12 ins., 8c.
PRUNUS LAUROCERASUS OFFICINALIS (English Cherry Laurel)—RC, 10c.
PRUNUS LAUROCERASUS SCHIPKAENSIS (Hardy Cherry Laurel)—RC, 10c; T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.
SPIRAEA ANTHONY WATERER—T, F, Bushy, 4 to 6 ins., 10c; 6 to 9 ins., 15c; 9 to 12 ins., 20c.
VIBURNUM BURKWOODI—SWC, T, F, own root, 8 to 12 ins., 20c; 12 to 18 ins., 35c.
VIBURNUM RHYTIDOPHYLLUM—RC, 10c; T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.

Order now from the list above. If you don't see your variety there, tell us what you are interested in. We have smaller quantities of numerous other varieties and sizes.

TERMS

FREE PACKING: Rooted cuttings and liners in sphagnum moss and plastic sheet. F.O.B. Winchester, Tenn. Include payment covering parcel-post charges; otherwise shipped express collect. Established accounts—net 30 days. Strictly wholesale. Write on letterhead or send permit number.

HARVEY TEMPLETON, JR.

PROPAGATING TOOLS

[Continued from page 15]

found to have a definite advantage, particularly on rooting of cuttings with older wood at the base. More especially it allows the operation to proceed rapidly and with much greater efficiency. One person using one of these Gem blade wounders can keep up with three to five cutting makers using conventional equipment. When the edges of the blades become dull, it is a simple matter to replace them with new ones. It is standard practice at the Hill nursery now to maintain a stock of perhaps a dozen of these simple tools for use through the winter propagating season.

Cuttings of all kinds can be wounded with this tool. A simple cork floor tile is used as a base upon which to carry out the operation, and the cuttings are wounded first and then treated with the appropriate hormone powder before being inserted in the cutting benches.

For those who maintain production of any plants by dormant winter grafting on bare-root understocks by the conventional whip and tongue graft, a simple adaptation of a draw blade may be of interest. This was one of the first methods

that came to my attention at the Hill nursery the past winter, and because I thought it would be of interest to other growers I had the tool photographed for use at this time. The method is used primarily at the Hill nursery for the propagation of lilacs, which are grafted onto California privet roots.

The basis of the tool is a simple block of hard oak which is cut as shown in the illustration. Note that the section against which the draw blade finally butts can be removed and replaced as it becomes worn. The angle of the notch is carefully determined so that when a stock or scion is inserted in the groove in a horizontal position, the draw blade following the angle of the notch cuts, the stem of either stock or scion at exactly the right angle. Each cut is, of course, the same as the next.

Two men working on this simple machine can cut both stocks and scions sufficiently rapidly to keep four grafters going. The grafters take the understocks and the scions and make the second cut to form the tongue on both pieces and then slide the two together, making a firm union. The graft is then handed on to a third group of people who bind the graft together with narrow gauge adhesive tape. The particular value

phytotektor.
U.S. HWYS. 64-41A
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LANDSCAPE MATERIAL

	Each
Pinus Resinosa (Red Pine), first class for landscape projects.	
4 to 5 ft., B&B.....	\$5.50
5 to 6 ft., B&B.....	6.50
6 to 7 ft., B&B.....	7.50
7 to 8 ft., B&B.....	9.00
Tsuga Canadensis (Canadian Hemlock), heavy sheared specimens.	
3½ to 4 ft., B&B.....	5.50
4 to 4½ ft., B&B.....	6.50
Picea Excelsa (Norway Spruce)	
3 to 4 ft., B&B.....	3.00
Picea Glauca (Black Hills Spruce)	
2 to 3 ft., B&B.....	2.85
3 to 4 ft., B&B.....	3.50
Cornus Florida (White-flowering Dogwood)	
3 to 4 ft., B&B.....	2.50
4 to 5 ft., B&B.....	3.00
5 to 6 ft., B&B.....	3.50
6 to 7 ft., B&B.....	4.50
7 to 8 ft., B&B.....	6.50
8 to 9 ft., B&B.....	7.50

Multiple stems add 10 per cent.

WADE & GATTON NURSERY
BELLVILLE, O.

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CRATAEGUS PHAENOPYRUM
9 to 12 ins., T.

	Per 100	Per 1000
6 to 9 ins., S.....	\$ 7.50	\$ 65.00
9 to 12 ins., T.....	15.00	135.00
12 to 18 ins., T.....	22.50	200.00

See complete list on page 42.

NEWPORT NURSERY CO.
NEWPORT, MICH.

HARDY PLANTS Bulbs and Shrubs

"America's Finest"

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Springbrook Gardens

MENTOR, O.

Over 100 Years' Nursery Experience

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GET THE BEST BUY ILGENFRITZ

ROSEMARY WILLOW

(Salix Rosmarinifolia)

Very attractive fine-textured specimen shrub. Long narrow linear leaves, bluish-green above, white underneath. Stems rich mahogany. Compact upright growth.

Available in 1-yr. stock only....\$1.00 each.
BEARDSLEE NURSERY PERRY, O.

of this draw blade method of cutting stock and scion is that a completely standard cut is insured. This means that both stock and scion fit together without difficulty and the general speed of production is greatly increased.

A Scion Cutter

The problem of finding sufficient skilled workers to carry out good grafting techniques is increasingly evident, and many growers who normally propagate by grafting must have pondered on the possibility of using a tool or machine to eliminate some of this skilled knife work. There have been references from time to time of grafting machines coming from France. I have not seen any of these tools, but, from conversations which I have had with other growers who have seen them, I have received the impression that they are too complicated for the average nurseryman to use. It is a pleasure, therefore, for me to be able to recommend unhesitatingly a simple tool devised by the Sneed Nursery Co., Oklahoma City, Okla.

The illustration may give some idea of what this machine is like. It is extremely simple, and it enables one man to cut scions of any plant sufficiently rapidly to supply from six to eight grafters. This Sneed machine is a scion cutter only, and it consists of two cutting blades inserted in the metal strips which can be seen in the illustration. The blades cannot be seen, but they are at the bottom of the dark square opening which appears at the end of the tool. The arm, which goes out at the back, is connected to a rod going through the bed of the table upon which the machine is fixed to a small footboard, and the operator presses on this and thus opens the front of the machine separating the two blades to allow a scion to be inserted. He then releases the foot pressure, which allows the two blades to come together. The pressure which they exert on the scion is regulated by the spring (clearly to be seen in the center of the picture) and this pressure can be adjusted immediately with the wing nut. The operator then pulls the scion from between the two cutting blades with a firm swift motion. This produces two exactly similar and parallel tapering cuts on either side of the scion.

If the pressure has been too much, the cuts may be too deep, and the tapering cuts may go right through the stem, producing a thin, wedge-shaped cut. A simple adjustment of

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Lining-out and B&B

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AMERICA'S BEST SOURCE
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Concord, Delaware and Niagara

State Inspected

Wire-bound, 100 per bunch.

\$6.00 per 1000

Cash or C.O.D. Order at once. Start cutting December 1.

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PAW PAW, MICH.

FOR PROMPT ACTION

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EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

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EVERGREEN NURSERY CO.
Established 1884 : STURGEON BAY, WIS.

LANDSCAPE MATERIALS

Full Plants — Good Colors — Field-Grown under Irrigation

	Each		Each
<i>Abelia Edward Goucher</i> , 18 to 24 ins.	\$2.00	<i>Ilex cornuta burfordi</i> , 18 to 24 ins.	\$2.00
24 to 30 ins.	2.75	24 to 30 ins.	2.50
30 to 36 ins.	3.50	30 to 36 ins.	3.00
<i>Cotoneaster parneyi</i> , 12 to 18-in. spread	1.15	<i>Ilex opaca East Palatka</i> , 24 to 36 ins.	1.75
<i>Cotoneaster parneyi</i> , 18 to 24-in. spread	1.50	<i>Ilex opaca howardi</i> , 36 to 48 ins.	3.00
<i>Euonymus carrierei</i> , 12 to 18 ins.	1.25	<i>Laurel Cherry</i> , 24 to 36 ins.	1.50
<i>Euonymus carrierei</i> , 18 to 24 ins.	1.50	36 to 48 ins.	2.25
<i>Euonymus patens</i> , 12 to 18 ins.	1.25	48 to 60 ins.	3.00
18 to 24 ins.	1.50	<i>Ligustrum japonicum</i> , 24 to 36 ins.	1.25
24 to 30 ins.	1.75	<i>Ligustrum japonicum</i> , 36 to 48 ins.	1.75
30 to 36 ins.	2.00	<i>Ligustrum lucidum</i> , 24 to 30 ins.	1.50
<i>Hypericum Sungold</i> (Pat.), 12 to 18 ins.	1.50	<i>Ligustrum lucidum</i> , 30 to 36 ins.	1.75
<i>Hypericum Sungold</i> (Pat.), 18 to 24 ins.	2.00	<i>Photinia glabra</i> , 18 to 24 ins.	1.25
<i>Ilex cassino angustifolia</i> , 18 to 24 ins.	1.75	24 to 30 ins.	1.75
24 to 30 ins.	2.50	30 to 36 ins.	2.25
30 to 36 ins.	3.25	36 to 42 ins.	3.00
36 to 48 ins.	4.00	<i>Santolina chamaecyparissus</i> , 10 to 12-in. spread	1.25
<i>Ilex crenata bullata</i> , 12 to 15 ins.	1.50	12 to 15-in. spread	1.75
15 to 18 ins.	2.00	15 to 18-in. spread	2.25
18 to 24 ins.	2.50	<i>Teucrium chamaedrys</i> , 10 to 15-in. spread	1.50
<i>Ilex crenata microphylla</i> , 12 to 15 ins.	1.50	15 to 18-in. spread	2.00
15 to 18 ins.	2.00		
18 to 24 ins.	2.50		

All stock balled and burlapped, and priced F.O.B. our nursery (loaded on your truck or freight car at Germantown). A deposit of 25 per cent is required to hold any order that is to be shipped at a later date, with balance to be paid at time of shipment.

We invite you to visit our nursery.

GREENE NURSERY & LANDSCAPE CO.

Germantown, Tenn.

Located 7 miles east of Memphis

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the wing nut will reduce the pressure and reduce the depth of the cut on the scion.

The great value of this simple machine is that it does produce two similar cuts on either side of the scion which are exactly parallel to each other. Those who have attempted to train a young person in the art of grafting know how difficult it is to be sure he makes two cuts on either side of a scion which are parallel. Almost inevitably beginners tend to turn the scion over too far when making the second cut, and the result is a wedge-shaped cut rather than two parallel cuts.

This one machine enabled one man to cut scions sufficiently rapidly to maintain a steady production of grafts of from 7,000 to 8,000 per day. This, of course, meant that the operator had to be supplied with scions which had been trimmed of their side branches by other people, and a considerable number of other workers were required to attach the scions to the understocks and remove them from the grafting bench. But it does show what one of these machines can do, and I believe it to be a distinct advance in the work of plant propagation.

The thing that appeals to me about this machine is its simplicity.

There is absolutely nothing to go wrong, and anyone can see how it should work. The one drawback with it is that it is somewhat difficult to adjust the angle of the cutting blades. The illustration shows that the blades are fixed to the machine with two bolts, and it is sometimes difficult to tighten up these bolts when fixing a new set of blades and still maintain the blades in the correct position. I think that some refinement in the control of the angle of cut of the blades would be desirable, and, in fact, we are endeavoring to change the method of fixing the blades in our machine to give us micrometer control.

From the propagator's point of view, however, it is enough to say that this machine most definitely works, and I can, without hesitation, recommend it to any grower who is engaged in the production of fairly large quantities of plants by the conventional side graft method. The machine does work best on scions of a heavy caliper. It is not so good on thin, small, light caliper scions, because it tends to cut too deeply into this light wood. Here, again, I believe, is a problem that could be overcome by more accurate control of the angle of cut of the blades. If some small wheel adjust-

MULTIFLORA ROSES UNDERSTOCK

Straight shanked seedlings grown especially for understock. Expertly graded to suit the most particular.

Per 1000

4 to 6-mm. cal. \$27.50

2 to 4-mm. cal. 17.50

Also available are the following grades for living fences, conservation plantings.

Cal.	Ins.	Per 1000
2 to 3-mm.	8 to 15	\$12.50
3 to 5-mm.	12 to 18	19.50
3 to 8-mm.	12 to 24	22.50
5 to 12-mm.	18 to 36	32.50

Write for special quotations on quantities of 10,000 or more.

The above prices are F.O.B.

Griggsville, Ill. nursery.

All tops cut back to 10 ins. at shipping unless otherwise requested.

NO PACKING CHARGE.

500 at the 1000 rate.

Our storage facilities are the best. ORDER NOW for delivery this fall, winter or spring.



FARM LANDSCAPE CO.
Box 230
URBANA, ILL.



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

ment were available to enable these blades to be changed as the propagating wood changed, the scions could be graded into different groups and adjustments made as the different groups came up for cutting.

A Potting Machine

The past winter I had occasion to visit the George J. Ball, Inc., nursery, at West Chicago, Ill., where I saw a most interesting demonstration of a German potting machine, the Erdprinz, and, although I must say I approached the machine with some skepticism, I left convinced that, once its intricacies of operation had been mastered, it could turn out a vast quantity of plants in one working day.

The machine is designed to make a ball of soil from prepared compost around the roots of a young seedling plant. This ball can be of any size or shape desired, and different molds are available for the machine to produce balls to fit, for example, a 2½-inch rose pot or a 3-inch standard pot. Square molds can also be had for fitting standard plant bands of different sizes.

It is not possible for me to describe accurately in words the operation of this machine, but suffice it to say that the operator places a young rooted cutting or seedling on a metal guide which drops down, carrying the young plant into a mold. The operator has to hold this young plant on the metal guide as it descends, and he continues to hold it while the machine brings soil from the hopper and compresses it from two sides around the roots. The metal guide then rises and the plant, firmly incased in the molded soil, is ejected onto a small conveyer line which removes it from the machine. The machine then returns to its original position in readiness for the next plant. The plants in the soil molds then have to be inserted in the appropriate containers, i.e., pots or bands, and stacked in flats for removal to their final quarters.

I understand that it is possible for

WILT-PRUF LINING-OUT STOCK SPECIMEN EVERGREENS SNEED NURSERY CO.

P. O. Box 798

OKLAHOMA CITY, 1, OKLA.

"CRIMSON PYGMY" DWARF RED BARBERRY

The new, sensational shrub for ranch-house landscaping, dwarf hedges, potting and B&B sales.

L.O. size from 2¼-in. pots.....	10 rate \$0.35 ea.	100 rate \$0.25 ea.	1000 rate \$0.22½ ea.
2-yr. field plants .....	.75 ea.	.60 ea.	.50 ea.

THE COTTAGE GARDENS

Lansing 15, Mich.

Minnesota Grown

**FLOWERING CRABS
ORNAMENTAL TREES
and SHRUBS**

Fruit Trees and Berries
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Complete Selection
of Fine Roses
Write for our Free Wholesale Catalog

Andrews

NURSERY COMPANY

SINCE 1872

FARIBAULT, MINN.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for list.

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REMEMBER SHERMAN'S for . . .

Alpine Currant
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Shade Trees
Evergreens
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Plum Seedlings
Lining-out Stock

Let us quote you on your requirements.

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ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

Stock that is hardy.

WHOLESALE

SUMMIT NURSERIES
STILLWATER, MINN.

a skilled operator to pot plants at the rate of 1,200 per hour on this machine, and this I can believe. I was assured that the subsequent development of the plants potted in this way was in every way as good as or better than that of conventionally potted plants. I believe that this machine has great merit for those producers who have large quantities of plants to pot in a relatively short time. It may have to be adapted to one's particular purpose, but it is most certainly worth looking into if seasonal potting requirements are heavy.

I feel sure that these few items which I have recorded represent only a small proportion of the tools and gadgets which other growers have devised, and, in an effort to disseminate useful information, might I ask anyone who thinks he has an improvement on any of the ideas here presented, or perhaps some entirely new idea, to write to me, giving me information which I may then be able to pass on to other growers. This would be a great service.

BAKERS IN SERVICE

J. B. Baker III, son of the A. A. N. president, rejoins his wife and 5-month-old son, J. B. Baker IV, October 1, at Fort Worth, Tex., where he is stationed at Carswell air force base as personnel officer. Since last spring he has trained at Scott air force base, Belleville, Ill., becoming a second lieutenant. He had spent a year with Baker Bros. Nursery after graduating in 1953 from Texas Technical College, at Lubbock.

His cousin, Edward L. Baker, Jr., parallels him in being 23 and graduating from Texas Tech in 1953, is the son of a former A. A. N. president and, after training since spring at Cheyenne, Wyo., is now a second lieutenant, acting as supply officer at Reese air force base, Lubbock, Tex.

Edward's brother-in-law, First Lieut. Sam Acola, 26, is in the air corps at Albuquerque, N. M., engaged in atomic energy work at the Sandila base.

DURING a recent survey, it was found that nursery stock was ranked ninth among the top 10 cargo items shipped by plane throughout the first eight months of 1954. This is the first appearance of nursery stock among the top 10 items and indicates a growing trend in the industry to air shipment.

NORTH ALABAMA GROWN LINERS

POTTED AND FIELD-GROWN

	Per 100	Per 1000
Bonita Arborvitae, 2 1/4-in. pots, 6 to 8 ins.	\$20.00	\$175.00
Woodward's Arborvitae, 2 1/4-in. pots	17.50	150.00
Berberis mentorensis, 2 1/4-in. pots	17.50	150.00
Cotoneaster divaricata, 2 1/4-in. pots	15.00	120.00
Euonymus patens, 2-yr., XX, field-grown, 8 to 12 ins.	17.50	150.00
Ilex burfordi, 2 1/4-in. pots	17.50	150.00
Ilex convexa (bullata), 2 1/4-in. pots	17.50	150.00
Ilex rotundifolia, 2 1/4-in. pots	17.50	150.00
Jasminum floridum, 2-yr., XX, field-grown, 12 to 15 ins.	17.50	150.00
Jasminum nudiflorum, 3-yr., XX, field-grown, 18 to 24 ins.	17.50	150.00
Juniperus ashfordi, 2-yr., field-grown, 12 to 15 ins.	17.50	150.00
Juniperus densa glauca, 2-yr., field-grown, 8 to 12 ins.	17.50	150.00
Juniperus densa glauca, 2-yr., field-grown, 12 to 18 ins.	25.00	....
Juniperus excelsa stricta, 1-yr., field-grown, 6 to 8 ins.	15.00	120.00
Juniperus excelsa stricta, 1-yr., field-grown, 8 to 12 ins.	17.50	150.00
Juniperus hibernica (Irish), 2-yr., field-grown, 12 to 15 ins.	15.00	120.00
Juniperus horizontalis, green (Bar Harbor), 1-yr., field-grown, 8 to 12 ins.	15.00	120.00
Juniperus horizontalis glauca (Waukegan), 1-yr., field-grown, 12 to 15 ins.	15.00	120.00
Juniperus horizontalis plumosa, 1-yr., field-grown, 6 to 8 ins.	12.00	100.00
Juniperus sylvestris, 2 1/4-in. pots	15.00	120.00
Retinospora cyano viridis, 2 1/4-in. pots	17.50	150.00
Retinospora plumosa aurea, 2 1/4-in. pots, 8 to 10 ins.	15.00	120.00

ATHENS NURSERY CO.

ATHENS, ALA.

Fall, 1954

Spring, 1955

Specimen Landscape Items

Evergreens — Flowering Shrubs
Shade and Ornamental Trees etc.

THE PRICE NURSERIES

PLYMOUTH, IND.

Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

FALL SURPLUS

Quality Liners—Shipped at Once
EUONYMUS PATENS, Newport Strain
(Evergreen Winter Creeper)

	Each	Each
	Per 100	Per 1000
12 to 15 ins., T.	25c	20c
250 at 1000 rate.		

Also Euonymus Vegetus, various sizes.

Write to:



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5785 Godown Rd.
COLUMBUS 12, O.

Scarff's Nursery
FRUITS
ORNAMENTALS
LINING-OUT STOCK
Send for Complete Trade List.
NEW CARLISLE, O.

EVERGREEN LINERS

Write For Trade List

DRAKE'S NURSERIES

G-4342 Branch Rd. FLINT 6, MICH.

500 PFITZERS

30 to 36 ins., B&B \$3.50
Each
Fine, sheared stock; come and see
them. Stock via purchaser's truck.
DIEHL'S NURSERY
R. R. 1 COLUMBIA, ILL.

NEW PUSSY WILLOW SILVER CLAW

(Mutabilis Selection)
Excellent low-growing, extremely early-forcing
variety. Catkins are long and slightly curved
around stem when fully developed. Ideal florists'
variety.

\$1.00 each.

BEARDSLEE NURSERY PERRY, O.

FLOWERING SHRUBS & ORNAMENTAL TREES

	Per 100	Per 1000
Abelia Grandiflora (Glossy Abelia)		
4 to 6 ins., C., field-grown	\$ 4.50	\$ 40.00
6 to 12 ins., C., field-grown	6.50	60.00
12 to 18 ins., C., field-grown	8.50	80.00
18 to 24 ins., 3 br. and up	25.00	200.00
2 to 3 ft., 4 br. and up	50.00	
Hydrangea Paniculata Grandiflora (Peegee Hydrangea)		
4 to 6 ins., C.	\$ 4.00	\$ 30.00
6 to 12 ins., C.	6.00	50.00
12 to 18 ins., 2 br. and up	9.00	80.00
18 to 24 ins., 3 br. and up	15.00	
2 to 3 ft., 4 br. and up	25.00	
Spiraea Vanhouttei (Van Houtte Spiraea)		
6 to 12 ins., C.	\$ 3.00	\$ 25.00
12 to 18 ins., C.	4.00	35.00
12 to 18 ins., 2 br. and up	6.00	50.00
18 to 24 ins., 3 br. and up	11.00	100.00
2 to 3 ft., 4 br. and up	20.00	100.00
	Per 10	Per 100

Cornus Florida (White Flowering Dogwood)		
18 to 24 ins., 2-yr., S.	\$ 6.00	
2 to 3 ft., 2-yr., S.	11.00	
2 to 3 ft., well-br.	\$ 4.50	\$ 35.00
3 to 4 ft., well-br.	7.00	60.00
4 to 5 ft., well-br.	10.00	90.00
5 to 6 ft., well-br.	14.00	130.00
6 to 8 ft., well-br.	19.00	180.00
(Add 50c per plant for B&B)		

NATIVE EVERGREENS

Collected stock

Rhododendron Maximum, Kalmia Latifolia, Ilex Opaca, Tsuga Canadensis		
	Per 100	Per 1000
3 to 6 ins., S.	\$2.50	\$20.00
6 to 9 ins., S.	3.50	30.00
9 to 12 ins., S.	5.50	50.00

CUMBERLAND PLATEAU NURSERY
RT. 1 CROSSVILLE, TENN.



PEONIES • IRISES
DAY LILIES • POPPIES

ALL YOUNG-GROWN STOCK
PROMPT SERVICE.

Send for Wholesale Prices.

Early ordering advised.

WASSENBERG GARDENS

4 1/2 Miles East on U.S. 30

VAN WERT, OHIO • "The Penny City"

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.



Wholesale growers of the best

Ornamental Evergreens

Deciduous Trees

Shrubs and Roses

Write for our current trade list

THE KALLAY BROTHERS CO.
Painesville, Ohio

VICARY PRIVET

Lovely golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun. Per 100 Per 1000

Greenhouse cuttings.....\$19.00 \$80.00

BEARDSLEE NURSERY PERRY, O.

ILLINOIS DIRECTORS MEET

Discussion of a "Plant Illinois" booklet, to be distributed in connection with the planting program in the state, was the main topic at the meeting of the board of directors of the Illinois State Nurserymen's Association, held September 9. D. Hill Nursery Co., Dundee, Ill., was host for this meeting.

The preliminary work has been done on the booklet, which will contain 20 pages and will be liberally illustrated. The initial printing order will consist of 50,000 copies. The booklet lists about 180 plants suitable for planting in Illinois and is written in laymen's language. Many of the pamphlets will be distributed by county agents and others will go to newspapers, farm organizations, etc.

A program of cooperative advertising by Illinois nurserymen during the week or month devoted to "Plant Illinois" was suggested and met with favorable reaction from the directors. It was recommended that the active cooperation of Governor Stratton be maintained and that a tree be planted on the grounds of the executive mansion at Springfield as part of the "Plant Illinois" observance.

The directors heard a report of the exhibit which the state's nurserymen arranged at the recent Illinois state fair. The exhibit received extensive local publicity and was seen by an estimated 300,000 people at the fairgrounds. The management of the fair has asked the nurserymen to repeat the exhibit next year.

Preliminary discussion of the forthcoming annual convention of the Illinois association revealed that an attempt will be made to place emphasis on sales and merchandising in the speaking program.

TRAILER LOT LANDSCAPING

That there are no limits to the fields which may be covered by the nursery industry is well demonstrated by the idea of landscaping of mobile home lots, which was promoted recently with a contest at the Temple trailer village, Alexandria, Va., to choose the best looking residential lot, including lawn, flowers, walk, driveway, fence and over-all design.

A prize for the winning trailer lot in an entire village of 350 trailers was awarded to Delphine Pomeroy and Doris Fenter by Mrs. Annabelle Grimes, Waynesboro Nurseries, Inc., Waynesboro, Va., assisted by Bryon Wates, Area Landscaping Service,



SYRINGA VULGARIS

12 to 18 ins., S.

	Per 100	Per 1000
6 to 12 ins., S.	\$ 7.50	\$ 65.00
12 to 18 ins., S.	10.00	85.00

See complete list on page 42

NEWPORT NURSERY CO.

NEWPORT, MICH.

HEAVY POTTED TAXUS LINERS

From 3 1/2x4-in. rose pots; potted spring of 1953. Carried under lath with overhead irrigation.

	Per 100
6 to 8 ins.	\$30.00
8 to 10 ins.	38.00

3320 *Taxus cuspidata*2680 *Taxus media*1380 *Taxus hicksii*

Packing at \$2.00 per 100.

THE LEICHHARDT HILLVIEW NURSERY

Nashville Rd. BOWLING GREEN, KY.

**AZALEAS**

Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES

EXMORE, VA.

LINERS

TAXUS — JUNIPERS — THUJAS
HEMLOCKS — DEUTZIA GRACILIS
and ROSEA — WEIGELA EVA
RATHEKE — TRANSPLANTS and
POTTED PLANTS.

HUMPHREYS LANDSCAPE SERVICE

MT. STERLING, KY.

Fairfax, Va. The winning lot was excellently maintained and well-balanced in the scale of material used, color and general upkeep.

The mobile home landscape beautification project is not a new one, but was started 10 years ago to stimulate trailer owners in home ground development at the Temple trailer village. Shade trees have been planted yearly, with this year's planting amounting to 131 trees, including American elm, Oriental plane and sweet gum. Roses and broad-leaved evergreens have also been planted.

E. M. Q.

NEW DENVER GARDENS

Dedication ceremonies for the Denver Botanical Gardens were held September 9 in the rosarium in City park. Now 7 per cent complete, the project will include 100 acres by 1968, according to S. R. DeBoer, landscape architect for the gardens.

City financing of the gardens has been supplemented by contributions of amateur enthusiasts and Denver commercial firms. Lou Appledorn, president of the Denver Rose Society; Maurice Marshall, Marshall Nurseries, and Scott Wilmore, W. W. Wilmore Nurseries, have secured about \$7,000 worth of roses presently on display in the gardens. An evergreen garden containing approximately \$3,500 worth of trees and plants has been completed, along with a lilac lane and plantings of more than 1,000 ferns of six varieties. The long-range program is sponsored by the Botanical Gardens Foundation of Denver, Inc.

BUSINESS RECORDS

Call for a final meeting of creditors of Elmhurst Nurseries, Inc., Elmhurst, Ill., was made for October 1, at the county courthouse at Geneva, Ill., by John P. Haley, referee in bankruptcy, Joliet, Ill. Accounts receivable amounting to \$3,749.24 were to be offered for sale to the highest bidder and to be abandoned if no bid was made. Report of the trustee shows total receipts of \$7,364.18 and total disbursements of \$2,711.15, leaving a balance of \$4,653.03. Priority claims filed and allowed amounted to \$4,130.92 and unsecured claims to \$37,909.16.

K. D. HOLMES has resigned as vice-president of the Shenandoah Nurseries, Shenandoah, Ia., it has been learned from D. S. Lake, president. Mr. Holmes spent 27 years at the nurseries.



HARDY NATIVE AZALEAS and EVERGREENS

Collected from the wild.

AZALEA CALENDULACEA (Flame Azalea)

AZALEA NUDIFLORA (Pinxterbloom)

AZALEA CANESCENS, light pink

	Per 10	Per 100
12 to 18 ins., clumps with bloom buds, B&B.....	\$10.00	\$ 85.00
18 to 24 ins., clumps with bloom buds, B&B.....	12.50	100.00
2 to 3 ft., clumps with bloom buds, B&B.....	15.00	125.00

KALMIA LATIFOLIA (Mountain Laurel)

18 to 24 ins., clumps, B&B.....	15.00	125.00
2 to 3 ft., clumps, B&B.....	20.00	175.00
3 to 4 ft., clumps, B&B.....	25.00	200.00

RHODODENDRON MAXIMUM (Rosebay Rhododendron)

2 to 3 ft., clumps, B&B.....	25.00	200.00
3 to 4 ft., clumps, B&B.....	30.00	250.00

If interested in truck or car load lots of the above items, we can make delivery via truck within a radius of 800 miles. We can deliver from 800 to 1000 balls or more at a load according to size wanted. If interested in large trees in truck or car lots, write or call us.

If you have not received our 1954-1955 list, write for your copy.

See our ad in the September 15 issue.

O. H. PERRY NURSERY CO.

Box 545

Phone 5574

McMINNVILLE, TENN.

PFITZER JUNIPER

In quantity lots.

2 to 2½-ft. spread	\$2.50
2½ to 3-ft. spread	3.00
3 to 4-ft. spread	3.50

They ARE nice.

LINDLEY NURSERIES, INC.

P. O. Box H

GREENSBORO, N. C.

VOGE NURSERY

New Lebanon,
Ohio

TAXUS

JUNIPER

THUJA

LINING-OUT STOCK

FINISHED STOCK

THE LAKETON NURSERIES, Laketon, Ind.

Quality Nursery Stock since 1880

Extensive Growers of



All under irrigation. Large mechanical digger assures entire root system. New 95' x 160' cold storage, keeps stock in perfect condition. Visit our nursery and see the superior quality of our stock. Book orders now for Fall and Spring delivery.

Write for complete Wholesale Catalog with attractive prices

Ozark SINCE 1895
NURSERY COMPANY

TAHLEQUAH, OKLAHOMA

NOTICE

10 PER CENT CASH DISCOUNT

is a new benefit for Verhalen customers . . . PLUS usual full grade AND usual lagniappe which have always been characteristic customer treatment at —

VERHALEN

NURSERY CO.

SCOTTSVILLE • 12140 HARRY HINES BLVD.
TEXAS • DALLAS, TEXAS

-Your Profits Grow in Verhalen Plants

FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany-red with attractive large silvery-pink catkins when mature.
15 to 18 ins., \$25.00 per 100; \$200.00 per 1000.
18 to 24 ins., \$30.00 per 100; \$250.00 per 1000.
24 to 30 ins., \$4.00 per 10; \$35.00 per 100.

BEARDSLEE NURSERY PERRY, O.



**SEMME'S
NURSERIES**

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

CANADIAN SHORT COURSE

[Continued from page 13]

Elic, Solange, Nick Shaylor and Tourangelles.

Propagation was discussed by A. Buckley, curator, arboretum, Central Experimental Farm; R. A. Butler, Roschall Nurseries, Ltd., Brantford, Ont., and Don Blair, Central Experimental Farm. One interesting method mentioned was the double-working of grafted stock to dwarf trees.

The morning session concluded with a talk by Norman Scott, Brookdale-Kingsway, Ltd., Bowmanville, on the way he is obtaining a deeper rooting area with higher fertility by breaking up the underlayers of soil. By cultivating deeply and adding organic matter supplemented with commercial fertilizer, he has produced a topsoil about 22 inches deep in an experimental plot.

Beginning the afternoon session, Harry Endean, Endean Nurseries, Richmond Hill, Ont., related some of the highlights of the convention of the American Association of Nurserymen, at Minneapolis, Minn., and told of plans for the forthcoming 1955 convention at Toronto. Mr. Endean observed that the round-table discussions were one of the most worth-while features of the convention.

Merchandising Panel

A merchandising panel, chair-manned by Elmer Banting, was then featured, with protection of nursery stock with polyethylene as the first topic. Don McConnell, McConnell Nursery Co., Port Burwell, Ont., gave an excellent paper on polyethylene packaging. In the shipping of nursery stock polyethylene is becoming exceedingly important, and its many benefits were detailed by the speaker. Mr. McConnell suggested that each nurseryman experiment before adopting this method of packaging for all orders.

W. H. Perron, W. H. Perron & Co., Montreal, Que., described results of tests in which he packed strawberry plants in polyethylene. Results were excellent, he said.

Protection of nursery stock by antitranspirant sprays was discussed. William Christenson, Linbrook Nurseries, Oakville, Ont., was of the opinion that these sprays seem to solve somewhat the problem of extending the landscaping season. By using antitranspirants, his firm has had success in moving deciduous shrubs in the summertime. Ted Shuttleworth, Little Tree Farm, London, Ont., explained how to use the

PINK DOGWOOD WHITE DOGWOOD

1, 2 and 3-yr.-old.

Evergreens
Broad-leaved Evergreens
Shade Trees
Flowering Crab Apples
Flowering Shrubs
Fruit Trees

Let us quote on your requirements.

HAWKERSMITH & SONS NURSERY
TULLAHOMA, TENN.

CHINESE CHESTNUT TREES

SEEDLINGS

GRAFTED TREES

We offer only the Peter Lui strain of Chinese Chestnut trees which produced the Nanking, Mailing and Kuling varieties. We give you the advantage in price of our long growing season and cheap labor in addition to the proven quality of our trees. Your inquiries are invited.

LEELAND FARMS
LEESBURG, GA.

Packaged and Bare Root

ROSE BUSHES

Write For Wholesale List

**MCCLUNG BROS.
ROSE NURSERY**

Route 5, Box 275-N

Tyler, Texas

JUNIPERS and BIOTAS

Grown right, handled right. Salesyard sizes in popular varieties.

FIKE NURSERIES
HOPKINSVILLE, KY.



Azaleas, Camellias
and Magnolias
our
specialties.

Semmes, Ala.



MORNING STAR NURSERY

Rives, Tennessee
Wholesale Growers
Evergreens, Trees
Deciduous Shrubs, Roses
Send us your want list

products and stated that he is still experimenting with them. Panelists agreed that further experimentation with these sprays is needed.

Dr. H. Hill, Central Experimental Farm, in discussing the use of liquid fertilizers and starter solutions, stated that foliage sprays put fertilizer in plants quickly and have an emergency value. However, he stated that he believes in using soil fertilizers and supplementing them with liquid fertilizers as required.

Merchandising in containers was a subject that created considerable interest. Carl Luck, Royalvale Nursery, Ltd., Monreal, Que., stated that there is a good future in potted material. Attractive presentation is important to selling success, he stated, and being able to sell plants when they are in full bloom contributes to attractive presentation. Tin cans, tar paper pots and wooden containers were all suggested as suitable for selling potted material.

Evening Devoted to Informal Talk

In the evening there was a bull session, in which all members enthusiastically took part as soon as a speaker had introduced the subject. Harry Endean was chairman.

J. V. Stensson stated that the industry has been receiving publicity through television shows and through pamphlets which tell interesting facts about nursery stock, written and distributed in the interest of consumer education. Ted Shuttleworth stated that \$3,000 has been spent for national advertising this past year to advise the public to patronize members of the Canadian Association of Nurserymen. He recommended that every store have its membership plaque in a conspicuous place.

The operation of a garden store was the next subject to which the nurserymen turned, and a number of telling points were made regarding successful operation of such ventures. Ted Shuttleworth observed that carrying equipment and appliances, as well as nursery stock, not only attracts customers who like a 1-stop arrangement, but also provides additional profit. The importance of a good location for a garden store was stressed by Len Cullen, Weall & Cullen, York Mills, Ont. He also advocated that nurserymen consider the possibility of incorporating their businesses. George Downham, of Strathroy, Ont., recommended licensing of nurseries, agencies and nursery salesmen as a means of eliminating unethical operators. After much discussion on this subject, it was suggested that

CORNUS FLORIDA RUBRA

(Pink-flowering Dogwood)

	10 Rate Each	100 Rate Each
12 to 18 ins., B.R.....	\$1.00	\$0.75
18 to 24 ins., B.R.....	1.25	1.00
24 to 30 ins., B.R.....	1.50	1.25
30 to 36 ins., B.R.....	1.75	1.50

All sizes listed below are 60 per cent or more with bloom buds.

24 to 30 ins., B&B, 2-yr.....	2.50	2.25
30 to 36 ins., B&B, 2-yr.....	3.50	3.00
3 to 4 ft., B&B, 2-yr.....	4.25	4.00

TENNESSEE VALLEY NURSERY

Hoskins A. Shadow

WINCHESTER, TENN.

PINK FLOWERING DOGWOOD

Cornus Florida Rubra	Per 10	Per 100
6 to 12 ins., 1-yr.....	\$ 6.00	\$ 30.00
12 to 18 ins., 1-yr.....	8.50	75.00
18 to 24 ins., 1-yr.....	12.50	100.00
24 to 30 ins., 1-yr.....	15.00	125.00
30 to 36 ins., 2-yr.....	17.50	150.00
3 to 4 ft., 2-yr.....	30.00	250.00
4 to 5 ft., 3-yr.....	30.00	400.00

B&B—50¢ extra per plant.

Write for our new, descriptive wholesale catalog.

Boyd Nursery Co., McMinnville, Tenn.

THE KENTUCKY JUNIPER GRAFTERS ASSN.

invites your inquiries for Juniper grafts and other liners. Upon request, we will gladly mail you a list of propagators in Kentucky, after which you may contact your favorite grower. Address inquiries to: NICK VERBURG, ANCHORAGE, KY.

COMMERCIAL
Nursery Co.
ESTABLISHED 1900
Decherd, Tennessee

THE BEST IS NONE TOO GOOD

For the best in all kinds of fruit trees and virus-free strawberry plants, write or wire for quotations on your requirements to:

PACK TRUE-TO-NAME NURSERY CO.
McMINNVILLE, TENN.

AWARD WINNING ROSES
AARS Winners and 150 other popular varieties. In attractive, colorful packages or bare root.

PECAN TREES
Beautiful shade, productive too! Prolific varieties. Sizes 18 in. to 12 ft. In attractive packages or bare root. Get stock list and prices.

ARP Nursery Co.
P. O. Box 867-J, TYLER, TEX.

Please mention the **American Nurseryman** when writing advertisers

KOSTER BLUE SPRUCE
Out of 2½-in. rose pots, on own roots.
Per 100 Per 1000
3 to 4 ins.....\$ 60.00 \$ 550.00
Shipped in Dixie cups same size as pots.
Order not less than 25.

SUGAR MAPLE
Native collected stock.
4 to 5 ft..... 35.00 300.00
5 to 6 ft..... 50.00 400.00
6 to 8 ft..... 60.00 500.00
8 to 10 ft..... 75.00 700.00
10 to 12 ft..... 125.00 1000.00

ILEX OPACA FEMINA
Out of 2½-in. rose pots.
5 to 8 ins..... 25.00 225.00
Booking orders now for fall, 1954 and spring, 1955, delivery.



PEACE and SON NURSERY
P. O. Box 304
SILOAM SPRINGS, ARK.

HEMLOCKS

	Each
24 to 30 ins.	\$2.00
30 to 36 ins.	2.50
36 to 42 ins.	3.25
42 to 48 ins.	4.00
4 to 5 ft.	5.50

OTHER FINISHED STOCK
SEE CLASSIFIED AD

Tritschler's

GREENHOUSES
NASHVILLE 9, TENN.

Broad-leaved Coniferous Evergreens Deciduous Magnolias

Fall planting pays off with good stands and added growth. Write for our complete Price List of Liners, strong, well established, in 2 1/4 and 2 1/2-in. pots.

T. G. OWEN & SON, INC.
Columbus Mississippi

Native Wild Collected Evergreen and Perennial Ferns

Grown in the mountain forests
of Tennessee.

	Per 1000
<i>Aspidium Acrostichoides</i> (Christmas Fern), a large evergreen fern.	\$15.00
<i>Aspidium Marginale</i> (Marginal Shield Fern), a large evergreen fern.	20.00
<i>Adiantum Pedatum</i> (Maidenhair Fern), a perennial fern.	15.00
<i>Osmunda Regalis</i> (Royal Fern), a large perennial fern.	20.00
<i>Pellaea Atropurpurea</i> (Purple-leaved Fern), a large evergreen fern.	20.00
Also, Day Lily plants, heavy blooming size.	15.00

NOLERIDGE NURSERIES

P. O. Box 26 McMinnville, TENN.

CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

those firms which do an agency business work together to bring before the directors of the association a recommendation to place before the government.

The operation of a sales agency came to the fore at this time, and Fergus Brady, Caradoc Nursery Co., Strathroy, Ont., maintained that only a grower can operate a sales agency profitably. The difficulties of operating nurseries in cold climates were brought up by Roger Dupuis, La Pepiniere Dupuis, St. Roch Des Aulnaies, who mentioned not only the early frosts and the necessity of choosing hardy varieties, but observed also that it takes much longer for stock to grow in a cold climate.

SHERIDAN WINS MEDAL

Sheridan Nurseries, Toronto, Ont., won the sweepstake prize and the gold medal which was awarded to the best and most artistic display in the six garden sections at the flower show of the Canadian National Exhibition, held at Toronto, August 26 to September 11.

Sheridan Nurseries featured a garden of modern design. Looking through curtained windows, one saw a walk of colored chromestone with a border of flowering perennials, annuals and hedge material leading to a chromestone-floored porch.

CHICAGO AREA OFFICIALS DISCUSS ELM DISEASE

Officials of Cook county, Illinois, municipalities attended a special meeting September 22 to discuss measures that may be used to control the Dutch elm disease. The conference was called by William N. Erickson, president of the Cook county board, as a result of reports of incidence of the disease in areas closer and closer to the populous county, which includes the city of Chicago. Dr. L. R. Tehon and Dr. J. C. Carter, both of the Illinois natural history survey, spoke at the meeting.

At the same time, foresters at the University of Illinois, Champaign, reported that the university is threatened with the loss of all of its famous campus elm trees within the next six to eight years as a result of the disease. The blight was first noted in the Champaign area in 1951 and has taken an increasingly large toll of trees since that time, a number of them on the university campus. There are an estimated 1,850 elms on the campus and 11,750 more in the university community.

SASANQUA CAMELLIAS

are fast gaining popularity. They are being planted everywhere in the south-east and as far north as Washington, D. C.

Don't let the boat leave you! Have a variety ready to sell. The demand will be greater each season. We have all sizes ready:

6 ft., specimen plants, B&B.	\$4.00 to \$6.00
(These will be in bloom in about 3 weeks.)	
3 to 4 ft., B&B, some buds.	2.25
18 to 24 ins., field-grown.	1.50
18 ins., well br., T.	.50
8 to 12 ins., liners, T.	.20
6 to 8 ins., liners, T.	.12
R.C.	.10

EAST COAST FLOWER FARMS
PINK HILL, N. C.

FINISHED STOCK and LINERS

We solicit your inquiries.

LAIRD'S NURSERIES

Route 2
RICHMOND, VA.

5 miles west of city on Broad St. Road

FLOWERING CRAB APPLE

	Per 10	Per 100
3 to 4 ft.	\$ 8.50	\$ 75.00
4 to 6 ft.	12.50	100.00

Varieties: Dolgo, Eleyi, Hopa, Redfield, Red Silver, Redvein, Scheideckeri.

Ask for Wholesale Price List on other nursery stock.

WAYNESBORO NURSERIES
WAYNESBORO, VIRGINIA

CHARLES SZEMORE

319 1/2 Georgia St. Louisiana, Mo.
Collector of past-due notes and accounts any place in the United States and foreign countries—Rates as below:

18% on the first \$500.00.

15% on the next \$500.00.

10% in the excess of \$1,000.00.

On claims of \$30.00 or less, 50%.

Minimum commissions \$15.00.

SUIT FEES: On claims of \$45.00 or more, a suit fee of not less than \$7.50.

NO COLLECTION—NO CHARGE

Freight bills not over two years old checked for 35 per cent of any amount found. Nothing found, no charge.

Plant Patents



The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1295. Rose plant. Josephine D. Brownell, Little Compton, R. I. A new and distinct variety of rose plant, characterized by its color pattern, fragrance and form of its blooms, produced as hybrid teas on hybrid tea type of stems and at the terminal end of canes that bloom the same season in which the canes grow; also by the Wichuraiana, hybrid tea and everblooming-climber characteristics.

No. 1296. Rose plant. Josephine D. Brownell, Little Compton, R. I. A new and distinct variety of rose plant, characterized by its color pattern, fragrance, form and yellow color of its blooms at the terminal end of canes that bloom the same season in which the canes grow; also, by the Wichuraiana, hybrid tea and everblooming-climber characteristics.

No. 1297. Rose plant. Josephine D. Brownell, Little Compton, R. I. A new and distinct variety of rose plant, characterized by its color pattern, fragrance, form and pink and rose colors of its blooms at the terminal end of canes that bloom the same season in which the canes grow; also, by the Wichuraiana, hybrid tea and everblooming-climber characteristics.

No. 1298. Rose plant. Francis Meiland, Cap D'Antibes, Alpes-Maritimes, France, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose plant of the hybrid polyantha class, characterized particularly as to novelty by its brilliant flame-rose general color tonality and by its exceptional utility for cut flower production under glass.

No. 1299. Rose plant. Gordon J. Von Abrams, Scappoose, Ore., assignor to Eldon Pinkney Dering, doing business under the trade name and style of Peterson & Dering, Scappoose. A new and distinct variety of rose plant of the hybrid polyantha class, characterized particularly as to novelty by its low-growing, vigorous, much-branched and compact bush habits of growth; by its habit of flowering in moderately large, closely packed clusters; by the unique form and color of its flowers; by its heavy and continuous flowering habit throughout the growing season; by its abundant foliage and even distribution of the same on the stems and branches, and by the unusually persistent deep maroon general color tonality of its new foliage which generally imparts a distinct red cast to the growing plant.

No. 1300. Camellia plant. Paul E. Shepp, Pasadena, Calif. A new and distinct variety of Camellia japonica plant, characterized as to novelty by the combination of qualities of its parent, Camellia japonica C. M. Wilson, and by the unmottled white color of the flowers.

THE Sutton Nursery & Landscape Co., Independence, Kan., recently obtained a contract for seeding the shoulders of U. S. Highway 54 from Martinson avenue to West street, Wichita, Kan.

BASS PECAN CO.

Lumberton, Miss.

World's Largest Grower of Pecan Trees

Pecan and Fruit Trees

Now you can buy quality pecan trees for your customers from the world's largest growers of Bred-Up paper-shell pecan trees. BASS also has available Pineapple and Orient Pear Trees; Celeste Fig Trees; Red and Golden Delicious Apple Trees; Tane-nashi Persimmon Trees, and Concord Grapevines. The BASS reputation for quality is your guarantee of customer satisfaction. Fall and winter shipments are now being booked.

WHOLESALE PRICES QUOTED ON REQUEST

FRUIT TREES

SHRUBS, ORNAMENTALS, EVERGREENS,
FALL AND SPRING

WRITE FOR WHOLESALE LIST
LET US QUOTE
ON YOUR REQUIREMENTS

MALONEY BROS. NURSERY CO., INC.

DANVILLE, N. Y.
PHONE 585

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

VUYK VAN NES BOSKOOP HOLLAND

Originators of Azalea Vuykiana.
Growers of choice Nursery Stock.
Please direct your correspondence to:
140 CEDAR ST. NEW YORK 6, N. Y.

Maurice C. Ravensberg Boskoop, Holland

Reliable exporters for general nursery stock since 1922.
Catalog on application.

FLOWERING CRAB APPLE

(New Ottawa Hybrids)

AMISK, pink with darker veins; **ARROW**, pomegranate-purple; **COWICHAN**, very early bloomer, deep pink-bronze foliage; **GENEVA**, large, dark red; **MAKAMIK**, deep rose; **ROSSEAU**, large, dark reddish-pink; **SCUGOG**, amaranth-purple; **SIMCOE**, large, rose-pink, bronze foliage; **MISSIPUK**, a prolonged bloomer, rose with white center.

	Each per 10	Each per 100	Each per 1000
18 to 24 in., well br....	\$0.55	\$0.50	\$0.45
2 to 3 ft., well br. ....	.70	.65	.60
3 to 4 ft., well br. ....	.75	.70	.65
4 to 5 ft., well br. ....	.90	.85	.75
5 to 6 ft., well br.	1.00	.90	.80
6 to 8 ft., well br.	1.10	1.00	.90

CUTLEAF WEEPING BIRCH

(Betula laciniata)

Well br., very fibrous roots.

	1.25	1.20	1.10
3 to 4 ft.	1.25	1.25	1.15
4 to 5 ft.	1.40	1.35	1.30
5 to 6 ft.	2.00	1.90	1.80
6 to 8 ft.	2.20	2.00	1.90
8 to 10 ft.	3.00	2.75	2.65

WHITE BIRCH

(Betula alba)

	.20	.18	.17
1 to 3 ft. ....	.40	.35	.33
3 to 4 ft. ....	.65	.60	.55
4 to 5 ft. ....	.70	.65	.60
5 to 6 ft. ....	.90	.80	.70
6 to 8 ft.	1.00	.90	.85
8 to 10 ft.	1.10	1.00	.95

MONTMORENCY CHERRY

All from virus-free stock.

	.90	.80	.75
11/16-in. cal. and over,			
5 to 6 ft.			
9/16 to 11/16-in. cal.,			
4 to 5 ft. ....	.80	.70	.65
7/16 to 9/16-in. cal., 4 ft. ....	.60	.55	.50
5/16 to 7/16-in. cal.,			
3 to 4 ft. ....	.30	.25	.20
3/16 to 5/16-in. cal.,			
2 to 3 ft. ....	.15	.10	..

SWEET CHERRIES

2-yr.-old, well br. In the following varieties: **BING**, **BLACK TARTARIAN**, **EMPRESS EUGENIE**, **HEDELINGEN**, **NAPOLEON BIGGAREAU** and **WINDSOR**.

	1.10	1.00	.95
11/16-in. cal. and up ...			
9/16 to 11/16-in. cal. ...	1.00	.90	.85
7/16 to 9/16-in. cal. ...	.85	.80	.75
5/16 to 7/16-in. cal. ...	.50	.45	.40
3/16 to 5/16-in. cal. ...	.30	.25	.20

BROOKDALE-KINGWAY NURSERIES

BOWMANVILLE, ONT., CANADA.

CERTIFIED BLUEBERRY PLANTS

Per 100 Per 1000
1-yr., rooted cuttings... \$ 8.00 \$ 70.00
6 to 12-in. plants 15.00 135.00
F.O.B. 15 Varieties

A. G. AMMON

Box 14 CHATSWORTH, N. J.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List

KELLY BROS. NURSERIES, INC.

Dansville, N. Y.

KANSAS CONVENTION

[Continued from page 11]

European chafer, green-snout beetle, gypsy moth and Dutch elm disease.

The first day's program wound up with a visit to the growing fields of the Kansas Landscape & Nursery Co. Ralph Ricklefs, Sr., president of the company, gave a demonstration of irrigation with light-weight surface pipe, using a large well and automatic electric pump as the source of water. This equipment proved especially valuable in keeping the nursery stock growing this past summer, which was one of the hottest and driest on record.

Report on College

Sessions on the second day were held in the Salina room of the Hotel Lamer. Dr. William F. Pickett, head of the department of horticulture at Kansas State College, began the program by giving a report on the college. The department of horticulture is now being housed in a modern building with the best physical facilities it has ever enjoyed. Dr. Pickett extended a cordial invitation to the nurserymen to inspect these.

Among the research programs conducted by the department of horticulture is one on the control of fire blight, a bacterial disease that has been a scourge of the nurserymen for generations. Prof. Ronald W. Campbell, who conducted the experiments, induced the disease in fruit trees by introducing diseased tissue into a dust that was applied to the trees under great pressure; control was then attempted by means of antibiotic sprays, some of which were successful. The experiments hold forth great promise for relief from this dreaded disease.

Prof. L. R. Quinlan, of the department of horticulture, is cooperating in a regional project using federal funds for the testing of new woody ornamental plants. These tests are being carried on at the experiment stations at Hays, Garden City and Colby.

Dr. Pickett described the work of the Central Plains Turf Foundation, whose experimental grass plots are located at Manhattan, Kan., and are under the supervision of the department of horticulture. In these plots, Zoysia and Bermuda grass are doing well. Merion bluegrass has proved to be drought resistant, but is subject to some rusts similar to wheat rust.

More research is needed on nursery problems, said Dr. Pickett. Nursery stock represents 4 per cent of the agricultural crops of the country, but



Espalier

TRAINED
FRUIT TREES

Now Available at Wholesale

You can realize handsome profits by stocking **LEUTHARDT Espalier Trained Fruit Trees**, now being offered to the trade at wholesale discounts.

Planted against a wall or fence, they are practical, decorative, fruitful.

A display of these aristocrats of fruit trees will attract the most discriminating clientele to your nursery.

Write for
Full
Information

HENRY LEUTHARDT
Port Chester · New York

SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the wholesale trade only.

KRIEGER'S WHOLESALE NURSERY
BRIDGMAN, MICH.

WE OFFER . . . Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.
69 Orchard St. FREDONIA, N. Y.

CORKSCREW TREE

(Salix Matudana Tortuosa)
Contorted Hankow Willow or Corkscrew Tree. Very odd appearing horticultural curiosity. Branches grow upright with a corkscrew twist. Compact growing large shrub or small tree. Ultimate height 12 to 15 ft. Small trees approximately 3 to 4 ft., \$2.50 each.

BEARDSLEE NURSERY PERRY, O.

only 2 per cent of the agricultural research money available in the United States is used in the study of nursery crops.

Dr. Harold E. Myers, assistant director of the state experiment station, addressed the convention on "Research and Society."

"The art of agriculture", said Dr. Myers, "is very old, but the science of agriculture is very new." Great progress has been made in the past 100 years. The standard of living in the United States is the highest in the world because of the application of the results of research. The results of research have also influenced our religious and moral thinking.

Research, which is the seeking of new information, is conducted in several ways. The first method is hard, critical thinking. The atomic bomb is the result of a basic principle developed in the brain of Dr. Albert Einstein.

A research program now can be carried on by chance observation followed by critical thinking. An example of this is the development of penicillin. The effects of penicillin were known for a long time, but the significance of it was not recognized until about 20 years ago as the result of observation in a laboratory, followed by critical thinking. The law of gravity, developed by Newton, is another example of research by observation.

The third and commonest type of research is that of planned experimentation and critically interpreted results. The large number of new insecticides developed during the past 20 years are a good example of this method of research. Another good example is chemical fertilizers, especially nitrogenous fertilizers. Until recent years, agriculturists had to depend largely upon organic sources for nitrogen, but now it is taken out of the air and fixed in a form that agriculture can use. It is estimated that 25 per cent of the agricultural production of the country is made possible by chemical fertilizers.

Advertising—Expense or Investment

Is advertising an expense or an investment? This question was discussed by Peter Macdonald, advertising manager of the Salina Journal.

Catalogs are a logical form of advertising for the nurseryman, stated Mr. Macdonald, as he can use more copy and better illustrations in them than in some other media. They are semipermanent in form, and they go to a selected audience.

Radio is the fastest advertising

APPLE TREES

BEST GROWTH IN YEARS!

We offer these excellent 11/16-in. cal. trees in the following varieties:

Yellow Delicious
Red Jonathan
Dark Red Stayman
Yellow Transparent
Redwell
Turley

Red Delicious
Grimes Golden
Rome Beauty
Dolgo Crab Apple
Hibernal Crab Apple
Virginia Crab Apple

\$70.00 per 100; \$650.00 per 1000

DELCON DWARF APPLE, 9/16-in. cal., \$1.35 each

The Shenandoah Nurseries

(LAKES)

SHENANDOAH, IA.

HOLLAND-GROWN BOXED BULB COLLECTION

70 boxes.....	12 Mixed Tulips to a box
15 boxes.....	6 Mixed Hyacinths to a box
10 boxes.....	6 Mixed Narcissi to a box
5 boxes.....	24 Mixed Crocus to a box

100 boxes (Collection) **\$54.00**

AMERICAN-GROWN BULBS

King Alfred Daffodils, Jumbo.....	Per 1000
King Alfred Daffodils, D. N., No. 1.....	\$105.00
Wedgwood Iris, 9 to 10 cm.....	85.00
	27.50

GEO. J. BALL, INC.

WEST CHICAGO, ILL.

TREE and SHRUB SEEDS

New Price List Ready October 1

Write for Free Copy

FORESTRY ASSOCIATES

922 East Tilghman St.
ALLENTOWN, PA.

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

J. VANDENBERG — VERDEGAAL, INC.

Wholesale Bulb Growers and Exporters

7400 Avon Belden Rd.

NORTH RIDGEVILLE, O. (near Cleveland)

Phone: Elyria 74531

Holland Bulbs in Supply



AMERICAN BULB Co

1335 W. Randolph St., CHICAGO 7
31 West 27th Street, NEW YORK 1

America's Most Complete Collection of IRISES

Also DAYLILIES, POPPIES, LILIES and OTHER NEW PERENNIALS.

Send for Trade List.

WALTER MARX GARDENS, Box 38-AH, BORING, ORE.

SHADE AND ORNAMENTAL TREES

Birch, Cut-Leaf Weeping

(Betula alba laciniata pendula)
9 to 10 ft., br.
8 to 9 ft., br.
7 to 8 ft., br.

Birch, Pyramidal European White

(Betula alba fastigiata)
6 to 7 ft., br.
5 to 6 ft., br.
4 to 5 ft., br.
3 to 4 ft., br.

Birch, Young's Weeping

(Betula alba youngi)
5 to 6 ft., br.
4 to 5 ft., br.

Crab Apple, Flowering

Almey
3 to 4 ft., br.
2 to 3 ft.

Atrorubiginosa

3 to 4 ft., br.
4 to 5 ft., whips
3 to 4 ft., whips

Beech

2 to 3 ft., br.
18 to 24 ins.

Floribunda

3 to 4 ft., br.
3 to 4 ft., whips

Floribunda purpurea

3 to 4 ft., br.
3 to 4 ft., whips
2 to 3 ft., whips

Hopa

4 to 5 ft., br.
3 to 4 ft., br.
2 to 3 ft.

Niedzwetzkyana (Redvein Crab Apple)

3 to 4 ft., br.
4 to 5 ft., whips
3 to 4 ft., whips
2 to 3 ft.

Red Silver

3 to 4 ft., br.
3 to 4 ft., whips
2 to 3 ft.

Scheideckeri

3 to 4 ft., br.
2 to 3 ft.

Elm, Chinese (Ulmus pumila)

10 ft. and up, 1 1/4 to 1 1/2-in. cal., T.
8 to 10 ft., 1 to 1 1/4-in. cal., T.
6 to 8 ft., 3/4 to 1-in. cal., T.
5 to 6 ft., 1/2 to 3/4-in. cal., T.

Elm, Chinese (Ulmus pumila), seedlings

4 to 5 ft., root-pruned
3 to 4 ft., root-pruned
2 to 3 ft.
18 to 24 ins.

Maple, Crimson King

(Acer platanoides schwedleri nigra)
Plant Patent No. 735
4 to 5 ft., whips
3 to 4 ft., whips
2 to 3 ft., whips

Maple, Norway

1-yr. whips, 3-yr. roots, all once transplanted.
6 to 7 ft.
5 to 6 ft.
4 to 5 ft.
3 to 4 ft.

Maple, Norway Pyramidal

(Acer platanoides ascendens)
4 to 5 ft., whips
3 to 4 ft., whips

Maple, Red (Acer rubrum)

10 ft. and up, 1 1/4 to 1 1/2-in. cal., br.
8 to 10 ft., br.

Mountain Ash, European, 8 to 10 ft., br.

(Sorbus ornamental prunus)
Bilireana 4 to 5 ft., br.
Clisena 4 to 5 ft., bush form
3 to 4 ft., bush form
Newport 4 to 5 ft., br.
4 to 5 ft., whips

Thundercloud 4 to 5 ft., br.

3 to 4 ft., br.
4 to 5 ft., whips
3 to 4 ft., whips

FRUIT TREE SEEDLINGS AND CUTTINGS

All of our Mahaleb, Mazzard and Myrobalan seedlings herein listed are root-pruned in the seedling beds, which produces uniform, fibrous, branched root systems.

Mazzard

No. 2, 2/16 to 3/16-in. cal.
No. 3, about 2/16-in. cal.

Myrobalan

No. 1, 3/16 to 1/4-in. cal.
No. 2, 2/16 to 3/16-in. cal.
No. 3, about 2/16-in. cal.

Quince, Angers

1/4-in. cal. and up, R.C.
No. 1, 3/16 to 1/4-in. cal., R.C.
No. 2, 2/16 to 3/16-in. cal., R.C.

Combination carlots for eastern distributing points during shipping season, January and February.

Write for our Trade List.

MILTON NURSERY CO.
76 years — Since 1878
MILTON — FREEWATER, ORE.

medium. There need be only a small lapse of time between the preparation of copy and its presentation to the listener. The time an advertisement is broadcast is important as well as association with an appropriate program.

In newspaper advertising, the initial cost is low for the coverage given. As most newspapers must be bought by their readers, the papers are likely to be read. Local papers cover a firm's own trade territory and the mailing list is always up-to-date.

Advertising must be followed by salesmanship. The sales force should know what is being advertised and should be fully informed on the product. An ad may bring the customer to the nursery, but he may not have made up his mind to buy the product.

The banquet at the Lamer hotel, the evening of the first day, was well attended. Music was provided by an accordionist, and W. M. Ostenberg, superintendent of Salina schools, gave a humorous address.

The next annual meeting will be held at Manhattan, the time to be determined later by the board of directors.

KANSAS CITY GROUP MEETS

About 30 members of the Kansas City Association of Nurserymen had their annual outing at Ottawa, Kan., September 14, as guests of the Willis Nursery Co. Cool, sunny weather greeted the nurserymen as they assembled early in the afternoon at the new greenhouses and service building of the company on U.S. 59, south of the city.

Between sessions of watermelon eating and animated discussions, the visitors were conducted on tours of the greenhouses, propagating beds and extensive growing fields, the latter terraced and planted on the contour. Much interest was shown in the experiments being conducted on the culture of nursery stock in metal containers.

In the evening, a meal of barbecued beef and chicken, roasted corn and baked potatoes was served buffet style in the greenhouse service building. Appetites had been whetted by the tantalizing odors that came from the barbecue pit all afternoon.

GERARD K. KLYN, nurseryman of Mentor, O., was the subject of an extensive, illustrated article in a recent issue of the Painesville, O., Telegraph. Mr. Klyn's All-America rose test gardens were featured.

Send for details of the STASSEN HOLLAND BULB SALES PLAN..

Easiest way to sell TULIPS, HYACINTHS, DAFFODILS, etc. Lowest prices for top-quality bulbs. Order bulbs as you need them from the large stock we carry throughout the fall season. STASSEN will also ship bulb orders direct to your customers under your name and label through use of the retail catalog which we have prepared for dealers.



Your own full color catalog — folds to 9 1/2 x 6 1/4 self mailer — streamlined — only the big top sellers — self contained order blank. COST PRICES.

\$60 per 1000 imprinted
\$33 for 500 imprinted
\$7.00 per 100 NOT imprinted

STASSEN FLORAL GARDENS, INC.
Dept. 31, Roslyn Height, N. Y.

STRAWBERRY PLANTS

EVERBEARING VARIETIES		Per 1000
Gem	.....	\$16.00
Streamliner	.....	17.00
Superfection	.....	19.00
JUNE-BEARING VARIETIES		
Beaver	.....	8.50
Bellmar	.....	10.00
Blakemore	.....	8.50
Dunlap	.....	8.50
Fairland	.....	10.00
Minnesota 1118	.....	10.00
New Ardmore	.....	11.00
New Robinson	.....	8.50
Premier	.....	10.00
Sparkle	.....	10.00
Temple	.....	10.00
Vermilion	.....	13.00

GARDEN ROOTS

	Per 100	Per 1000
Asparagus, Washington, 1-yr., No. 1	\$1.75	\$17.00
Asparagus, Washington, 2-yr., No. 1	2.15	20.00
Horseradish crowns	5.00	.....
Horseradish roots	3.00	.....
Rhubarb, Canadian Chipman Red, seedless, No. 1 div. (30c each)	25.00	.....
Sage plants, 2-yr., No. 1	20.00	.....

Shipment until November 15 as wanted. Bunched 25 to a bunch; moss-packed.

RIDER NURSERIES

Iowa's Largest Producer of Strawberry Plants
FARMINGTON, IA.

ROSES

Top-quality, field-grown patented and standard roses.
Write for list and prices.

MAYWOOD ROSE NURSERY

Rt. 2, Box 880 ROSEBURG, ORE.

ALUMALATH

IF YOU NEED SHADE YOU NEED ALUMALATH GET THE FACTS

FILL IN THE COUPON AND SEND IT NOW

HARRY H. REYNOLDS
2563 Valencia St. SANTA ANA, CALIF.

Date

Nursery <input type="checkbox"/>	Greenhouse <input type="checkbox"/>	Shade For	Name
Commercial <input type="checkbox"/>	Patio <input type="checkbox"/>	Size .....X.....X..... LONG WIDE HIGH	Address
Cold Frames <input type="checkbox"/>		No. & So. is LONG <input type="checkbox"/> WIDE <input type="checkbox"/> Direction	City State
PLEASE PRINT			

ALUMALATH

CONTROLS THE SUN

NORTH JERSEY PICNIC

The annual steak picnic was recently held by the North Jersey Metropolitan Nurserymen's Association, at Hackettstown Nurseries, Hackettstown, N. J., and enjoyed by about 75 members and guests.

The event was highlighted by a visit to the state game farm, after which attendants had delicious filet mignon. Many gifts donated by members were then raffled off, and prizes ranging from five pounds of grass seed to a home freezer were given away. Ed Wyckoff

NEW HAMPSHIRE GROWERS

Members and guests of the New Hampshire Plant Growers' Association recently toured the campus and horticultural farm of the University of New Hampshire, Durham, N. H. Some 50 persons attended the annual tour conducted by the group, which included visits to the institution's experimental greenhouses where current research projects were discussed by faculty members.

JAMES GRIFFIN, JR., executive secretary of the Florida Nurserymen and Growers Association, recently welcomed a baby boy to his family.

RICH & SONS NURSERY

Offers

SHADE TREES

Green Ash
Cutleaf Birch
White Birch (European)
Chinese Elm
Paul's Scarlet Hawthorn
Honey Locust
Red Maple
Silver Maple
Russian Mulberry
Flowering Plum
Poplars
Willows

Azalea Mollis

Prunus Besseyi, bushy, 2 and 3-yr. plants

ROSES

Many other items.

RICH & SONS NURSERY

Rt. 4

HILLSBORO, ORE.

ROSES

OLD and NEW

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.

Send for list.

MT. HOOD NURSERY

Rt. 2, Box 96

GRESHAM,

OREGON



CALIFORNIA'S
Best Source of
GOOD ROSES



Sturdy, two-year-old plants, grown in the Puente Valley now recognized as the leading rose-growing section in California.

Featuring a complete list of Hybrid Teas, Climbers and Floribundas, including the newest and finest A.A.R.S. Award Winners.

FOR QUALITY, WHOLESALE ROSES,
ORDER FROM

MONTEBELLO ROSE CO.

401 N. Sixth St.
MONTEBELLO, CALIF.
Phone Parkview 1-1721

SEND FOR OUR NEW 1954-55
COLOR CATALOG

ROSE HANGER, IN COLORS,
AVAILABLE ON REQUEST.

Hawaiian FERNWOOD

TREE TOTEM POLES

	Size	Per ctn.	Wt.	Per 10 ctns. or more, ea.
1	x1 x16 ins.	100	12	\$12.00 \$11.00
1 1/2	x1 1/2 x18 ins.	64	18	8.95 8.40
2	x2 x18 ins.	36	18	6.30 5.90
2	x2 x24 ins.	36	24	9.00 8.50
2	x2 x30 ins.	25	22	10.00 9.50
2	x2 x36 ins.	25	25	11.75 11.00
3	x3 x36 ins.	9	20	9.00 8.50
3	x3 x48 ins.	9	27	12.15 11.50
4	x4 x48 ins.	4	22	9.36 9.00
4	x4 x60 ins.	4	27	11.76 11.40

P.O.B. WILMINGTON, CALIFORNIA
1954 Wholesale Nursery Supply
Catalog Available on Request.

FERN HAWAII CO.

P. O. Box 216, WILMINGTON, CALIF.

Oregon Meets at Resort

By James A. Doty

A good resort hotel on the Pacific ocean, good weather, good friends and a brief but meaty business session combined to make the annual fall meeting of the Oregon Association of Nurserymen one that will not be forgotten soon. Departing from a previous policy of holding meetings in a Portland hotel, the convention committee experimented with a type of meeting completely new to the association and came up with a successful and friendly gathering.

Informally, the meeting began on Monday afternoon, August 30, at the Gearhart hotel, Gearhart, Ore. Early arrivals took surf fishing trips, played golf and relaxed along the beach or in the hotel sunroom. An informal mixer concluded the events on the arrival day.

Reports From A. A. N.

Brief business meetings were held on the morning of August 31 and September 1. Highlighting these were reports from J. B. Baker, Jr., president of the American Association of Nurserymen, and Clyde Stocking, member of the A. A. N. board of directors from region 6.

Mr. Stocking reviewed briefly the operation of the A. A. N. office and the type of legislative work done by Executive Secretary Richard P. White and other administrative personnel. He went on to point out the many small and large benefits to members of such an organization, including the many fringe benefits that are obtained even by the small operator. Concluding his report, he stated that the A. A. N. is the voice of the nursery industry in the United States just as state associations are the voice in the various states and that the complete support of both of them is vital to the industry.

President Baker gave detailed reports on the actual legislative work now in progress in the A. A. N. office and on action that has transpired on such matters as the transportation and postal bills, the quarantine amendments, the Musser labor relations case and the activities of the fair trade practices committee of the association.

A recreational afternoon was enjoyed by all on Tuesday. An 18-car caravan left the Gearhart hotel and traveled north along the coast to Astoria, where the famed salmon derby was taking place. This special derby, which attracts sportsmen

from all over the northwest and other parts of the country, is a week-long affair that literally fills the mouth of the Columbia river with fishermen and boats of all descriptions. The O. A. N. convention tour witnessed the derby in session and viewed some of the prize-winning catches before it moved on to the large Columbia River Packers Association cannery to view the salmon and tuna packing operations. Before returning to Gearhart, the tour visited the famed Astor column. This

historical monument, depicting the early history of the northwest and the arrival of the Lewis and Clark expedition in mosaic, commands a view of the Pacific ocean and the mouth of the Columbia river. During the afternoon those who did not participate in the tour took part in "razzle dazzle" golf matches.

Highspot of the meeting was a special clambake staged on the beach around a roaring bonfire. After a feast of freshly-dug fried clams the conventioners relaxed on the beach before returning to the hotel for motion pictures, dancing and swimming and relaxation about the hotel pool.

The more serious portion of the Wednesday business meeting included a round-table discussion with

SPECIALISTS FOR OVER 36 YEARS... in New and Unusual Woody Plants and Trees

Grafted Conifers • Shade Trees, Lilacs
Tree Peonies • Oriental Magnolias
Flowering Quinces • Roses • Tree Roses
Wisterias, Climbing and Tree-Form

In addition, a long list of better-class general ornamentals, both field-grown and in containers.

Ask for: List No. 5455 General Ornamentals
List No. 5401 Bush, Climbing & Tree Roses



Finest Quality
CAMELLIAS — ROSES
RETICULATAS — HOLLY
(Northern California Grown Roses)
DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
Pipeline & Walnut Sts., CHINO, CALIF.

Order Now.
TREE PEONIES
1-yr. grafts.
LAKE SAMMAMISH EVERGREEN NURSERY
Rt. 1, Box 79 EAST STANWOOD, WASH.

EVERGREEN LINERS
Rhododendrons Camellias
Azaleas Andromeda Conifers
Send for List
J. B. WHALLEY
Rt. 2, Box 212 TROUTDALE, ORE.

Write for List Today
H & S Personality Roses
Bred for American Gardens
HOWARD & SMITH, INC.
MONTEBELLO, CALIF.

audience participation on the subject of sales trends, supply and merchandising. A lively audience and a panel of four, including Bob Mullison, A. McGill & Son, Fairview; Joseph Klupenger, Klupenger's Nursery, Portland; Wayne Melott, Carlton Nursery Co., Forest Grove, and L. H. McGuire, Puget Sound Nursery, Tacoma, Wash., mentioned a number of points for argument and discussion and came to several conclusions.

Among the points brought out and generally agreed upon was that small nurseries should not try to run a completely diversified type of business but should concentrate on a self-service type or service to customer type operation, or should confine their operations either to wholesale, mail-order or landscape work. It was felt that a nurseryman with a small operation could not give proper service if he tried to handle landscaping, wholesale, retail and mail-order business all at the same time. In the course of discussion, it was also brought out that nurserymen who handle allied lines should not stock too many different brands of materials but should stick to one or two main lines that they can merchandise with enthusiasm. Another operational point often overlooked by many nurserymen both wholesale and retail was re-emphasized by the panel: All too often one fails to figure into his selling prices the full costs of transportation and handling of nursery items.

Quadland Speaks on Sales

The concluding event of the meeting was a special luncheon in the hotel dining room at which Howard P. Quadland, director of information for the A. A. N., was the main speaker. His address, "Two Sales Instead of One," was factual and to the point, as he brought out the importance of making the public conscious of "Plant America." Mr. Quadland called attention to the fact that the economic future of the nursery business is bright and that consumer consumption of nursery products can increase by 25 per cent in the next five years provided the nurserymen continue to improve their merchandising efforts and take advantage of present market development and publicity programs of the A. A. N. as they compete with other businesses for the consumer dollar. In concluding his talk, Mr. Quadland stated that there can be "two sales instead of one" if the nurseryman in his sales efforts observes sound merchandising methods.



WE'RE COOKING UP A BATCH OF "TOPS IN ROSES"

RECIPE:

Take 50 acres of rich Chino Valley soil, sprinkle generously with high-grade organics, baste regularly with crystal-clear well water, plant cuttings and bud to taste. Apply thick coat of southern California sunshine, stir constantly with best efforts of experienced employees, supervise thoroughly during growth, harvest and shipping. Serve as ordered.

*There are still some
in the pot.*

Write for List.

WEEKS WHOLESALE ROSE GROWER
O. L. Weeks • 926 W. Ely • ONTARIO, CALIF.



Texas customer writes:

"... my third reorder in 60 days. Never had a line of redwood planter tubs that sold so fast or were received by customers so well."

Illinois customer writes:

"Have had many comments on the unusual beauty and fine construction of your tubs and planter baskets. Have sold many specimen plants by displaying them in your redwood planter tubs. Reorder enclosed."

We furnish advertising and sales helps.
Write today for color catalog and price list.

- CALIFORNIA REDWOOD PATIO PLANTERS
- PLANTER BASKETS
- OTHER PRODUCTS
- UNCONDITIONALLY GUARANTEED

PATIO WOOD PRODUCTS

835 COMMERCIAL STREET • SAN GABRIEL, CALIFORNIA • Atlantic 7-9374

How to Increase Your Profits Through MODERN LANDSCAPING

Landscaping has a new look! Bring yourself up to 1954 in a field that has completely changed since World War II. Keep ahead of your nursery clients and make big profits. Norman A. Morris, internationally known landscape architect, specialist in home grounds design and plantings, will personally direct your home study training. Portions of our course now used in over 30 major colleges and universities throughout the United States. Many leading nurserymen take our course and buy it for their employees. Send for New FREE Catalog, "Modern Landscaping."

NATIONAL LANDSCAPE INSTITUTE
The Modern Landscape School

310 S. Robertson Blvd. Dept. N-10, LOS ANGELES 40, CALIF.



EVERGREEN LINING-OUT STOCK

Conifers • Azaleas • Heathers

Write for catalog.

MITSCH NURSERY

AURORA, ORE.

Wholesale Propagators and Growers of Evergreen Liners

OREGON-GROWN

Roses

Send for OUR LIST

AARS

Roseway Nurseries

4228 N.E. 77th Avenue • Portland 13, Oregon

WE SPECIALIZE IN LARGE TREES

Regular transplanted. Rare stock. Free of noxious weeds. In the business to stay.

F. A. DOERFLER & SONS

250 N. Lancaster Dr. SALEM, ORE.
Phone 22549

MINIATURE ROSES

—Newest Varieties—
Now offering largest selection of Miniature Roses in America. Send for free illustrated folder and wholesale prices.

"MOORE MINIATURE ROSES"
SEQUOIA NURSERY-VISALIA, CALIF.

CALIFORNIA Association of Nurserymen

ELMER J. MERZ, Executive Secretary

SAN JOAQUIN MEETING

A meeting of the San Joaquin chapter of the California Association of Nurserymen was held just prior to the state convention, at the Yturri hotel, Fresno, Calif., to stimulate convention attendance and discuss plans.

An application for the Holstein Nursery, owned by Wright Holstein, Fresno, was presented to the members of the chapter, and the firm was unanimously accepted for membership.

A motion was passed and a committee appointed by the president, Howard Riggs, Riggs Camellia Garden & Nursery, Madera, to discuss the feasibility and potential public acceptance of a television show to be sponsored by various suppliers of the member nurseries, with talent supplied by the members.

Marion E. Gardner

SUPERIOR CHAPTER ELECTS

In a recent election of the Superior chapter of the California Association of Nurserymen, Thomas Hall was elected president. Other new officers are Earl Lagomarsino, Sacramento, vice-president; Ray Johnson, Chico, secretary-treasurer; Jack Anderson, Sacramento, and Frank Dindwiddie, Woodland, chapter directors, and Richard Oki, Perkins, and Dwight Dewing, Sacramento, state directors.

SPECIALTIES DRAW TRADE

Besides forming a considerable sales volume, specialty plants draw into the Orchard Nursery, Lafayette, Calif., many buyers of a wide variety of stock on display for planting the new homes springing up in the valleys east of Oakland.

The store and office stretch across much of the 200-foot frontage on the highway, but visiting patrons interested in saintpaulias, which the firm catalogs in over 100 varieties and ships all over the country, pass through the beds of garden plants on the way to the greenhouse near the back of the nursery, 400 feet in depth, where the African violets are displayed in flower and in a wide

ROSES from Armstrong's



The roses you sell best are the kinds your customers want most—the successful roses like Charlotte Armstrong, Nocturne, Sutter's Gold, Helen Traubel and Mojave. Then, too, there is the matter of quality—Armstrong quality. You'll see it in every Armstrong-grown plant regardless of variety. Your customers will, too.

WRITE TODAY
FOR WHOLESALE LIST

**Armstrong
Nurseries**
ONTARIO, CALIFORNIA

variety of containers. There they will receive advice from Mrs. Constance Hanson, a director in the African Violet Society of America.

Particularly at this season, chrysanthemum enthusiasts will find in another rear section of the nursery a display of plants in boxes, tubes and ground beds, of new and choice varieties, in the charge of Mrs. Laura Safford, a writer and lecturer on this flower, as well as a hybridizer of note.

While Jack Schneider was at the convention of the California Association of Nurserymen at San Diego early in September, his partner, Stuart Wade, accompanied a display to the state fair at Sacramento, extending the firm's clientele through the popularity of saintpaulias.

Aside from the two specialties named, no stock is propagated, but a large assortment of trees, shrubs and bedding plants is retailed. In the store fronting the highway is carried a wide selection of garden supplies, including a corner of books which has proved popular.

FRANCIS MEILLAND, French rose hybridist, was a recent traveler to the Pacific coast, where he visited rose growers. He was accompanied by Sidney Hutton, president of Conard-Pyle Co., West Grove, Pa.

CALIFORNIA NOTES

Albert Wilson, garden consultant and radio and TV garden speaker, has been conducting an interesting laboratory course in gardening the past summer as part of an adult education program. It consists of field trips to peninsula estates. He reports that the estates contain many exotic plants for students to study. By seeing how these plants are used, the members of the classes learn more rapidly than is the case when only classroom facilities are to be had.

Two commercial organizations have made contributions of chemicals to the University of California, for research on herbicides. In addition, five organizations have contributed antibiotics for research in plant disease control, and additional cash or chemical contributions have been made for studies concerned with the control of soil, living plant diseases and the difficult problem of nematodes.

H. Plath & Sons, San Francisco, and the Pacific Nurseries, Colma, recently made contributions to the San Mateo county floral fiesta grounds of additional shrubs and trees for the permanent plantings on the fair-ground. W. B. B.

MONARCH FOGGER



**Humidifies
Without
Excessive
Wetting**

\$1.75 each
Postpaid With Check

- Breaks up water into exceedingly fine fog.
- Operates on regular water pressure—25 lbs. or more.
- Uses only 1 gallon water per hour.
- 1/8-in., 1/4-in. or 3/8-in. male pipe thread.

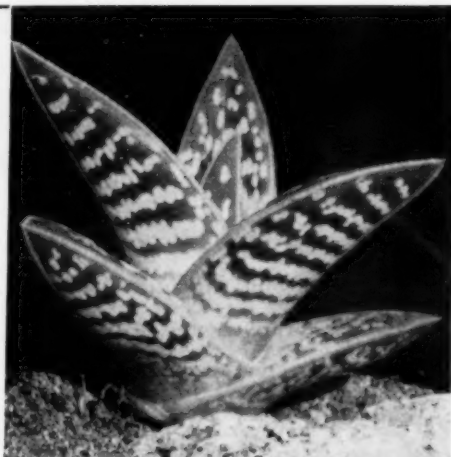
Write for detailed information including prices, specifications and installation diagrams.

DEALER INQUIRIES INVITED

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We ship the year round; supply is adequate.

The following, individual or assorted,

\$8.00 per 100, \$75.00 per 1000.

Aloe variegata ausana. Hummel's improved Tiger Aloe.

Haworthia fasciata. Zebra Haworthia.

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Kalanchoe beharensis. Velvet Elephant Ear.

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Rt. 1, Box 900

CARLSBAD, CALIF.

FAIR TRADE CONFERENCE

[Continued from page 9]

Presiding at the hearing, as he had at Chicago, Wilbur W. Sacra, attorney for the commission, offered helpful comments that revealed his increased understanding of nurserymen's problems. In reference to rule 15, on selling below cost, he questioned if much efficacy remained after the exemptions indicated in the explanatory note. If they afford a large ratio of escape from the rule, he suggested it might better be eliminated.

Opening the testimony at the conference, Clyde Stocking, San Jose, Calif., regional director of the American Association of Nurserymen, expressed support of the statement presented by President J. B. Baker, Jr., at the Chicago session. At four recent meetings he had attended on the Pacific coast he found nurserymen there in support of the program. As a mail-order nurseryman he viewed with alarm the fraudulent advertisements in newspapers, for which prosecutions were now belatedly made.

President Baker added that the proposals were discussed at a recent meeting of 50 nurserymen at Salt Lake City and found favor there. A letter from the Washington State Nurserymen's Association was read by the chairman, expressing the views of that organization similarly.

The preliminary rules, as published in the September 1 issue of the American Nurseryman, were read by Elmer Merz, executive secretary of the California Association of Nurserymen, discussion following the reading of each rule. Recommendations for changes in the preliminary rules as proposed by the A. A. N. and the National Mail Order Nurserymen's Association resulting from the

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Chicago conference were put into the record by Richard P. White, A. A. N. executive secretary.

In reference to the deletion from the definition of industry products of "bulbs, corms, and tubers," as recommended by the American Wholesale Bulb Dealers Association, Dr. White urged that, if they are not to be included, standards for them should be formulated soon. He offered for the record a list of species, with sizes, prepared in his office. Testimony of several nurserymen was to the effect that while the production and wholesale distribution of bulbs, corms, tubers and rhizomes were largely carried on by firms engaged exclusively in those activities, retail distribution was not so limited, but was carried on by most retail nurserymen, as well as others.

What Is Lining-Out Stock?

The definition of lining-out stock brought out extensive discussion, primarily to include the container stock common in California, but also to differentiate between immature and finished stock for retail sale. These phases brought forth comments and suggestions from the following Californians: Walter Borchers, of W. B. Clarke & Co., San Jose; Clifford Nelson, Nelson Nursery, San Leandro; Albert Morris, of Germain's, Van Nuys; Ray Hartman, Leonard Coates Nurseries, San Jose; Eric Torp, Garnet Nursery, San Diego, and Jerrold Vistica, of Louis Vistica Nurseries, Yuba City.

Originally the sentence defining lining-out stock ended with the words, "of suitable size to plant in nursery rows." One suggestion was that the words be added, "or in containers." Another that the original words be changed simply to read "of suitable size to transplant," while yet another would add to the latter phrase "or grow on." Finally, it was left to the industry committee to arrive at a satisfactory definition.

Seedling or Tree?

Similarly, discussion arose as to the definition of a seedling, in reference to rule 1, listing among deceptive practices "a representation or inference that seedlings are trees," etc. Various attempts were made to define a seedling and a tree, each exclusive of the other, by Jack Armstrong, of Armstrong Nurseries, Ontario, Calif., and James Wilson, of Peters & Wilson Nursery, Millbrae, Calif., as well as Walter Borchers, Ray Hartman, Clifford Nelson and others.

Into this discussion entered also



BETTER PROFITS *from* BETTER ROSES

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NURSERY MANUAL, by L. H. Bailey. Standard manual on propagation. 470 pages, \$5.50. American Nurseryman, Chicago 4, Ill.

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Plant Pat. No. 1144
The best in flavor and beauty at the start of the season. Firm, crisp Freestone, crimson blushed and delicious. Excellent shipper.

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New, very large, high-colored Freestone. Firm, juicy and yellow fleshed — ideal for shipping, canning and table. Ripens in late July.

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Extremely early Freestone of good packing size. Exceptional color — mottled red over yellow. Rich, tart flavor. Ripens early June.

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"Humidomist" Nozzles (the orifice is self-cleaning), under full automatic electric time control, promote rapid development of cuttings and plants, conserve water and save labor. Send for Circular No. 560, the Nurseryman's Special.

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criticism of the practice of offering seedlings of such plants as rhododendrons which have no merit as such because of lack of selective hybridizing and which are almost sure to cause dissatisfaction to the purchasers.

This phrase will be given further study, also.

Grade Specifications

Recommendations as to rule 2 made at the Chicago hearing were accepted with little comment, but there was debate as to the second recommendation on rule 4, on deception as to size, that the following addition be made: "On all plants advertised, a true grade without misleading adjectives must be made. These grades must conform to the American Association of Nurserymen's standards."

George C. Roeding, Jr., of the California Nursery Co., Niles, Calif., asked if it would be imperative that the grade be specified in every instance under such a rule. He saw objections to it, as did Messrs. Hartman, Morris, Armstrong and Baker, as well as Willis Stribling, of Stribling's Nurseries, Merced, Calif.

Commissioner Carreta explained that care should be exercised in employing the word "must" in fair trade practice rules, because it is not the intent of the law to handicap honest businessmen, but to discourage and prevent deceptive practices. The omission of a grade might be deceptive in the case of one species of plant, but not so in another.

What Is a Nursery?

Vehement opposition appeared to the definition of a nursery as it appeared in the original draft, and even the substitute definition of "nursery business" as recommended at the Chicago hearing was asserted to be in need of clarification.

Of 6,000 firms licensed to sell nursery stock in California, asserted Elmer Merz, a great number operate under the name of nursery which do not produce, but only retail, such material. The public has become used to the term nursery as a place in which plants are sold, just as the public regards a florist as one who sells flowers and not necessarily one who grows them. To limit the term nursery to the producer of plants is contrary to the popular concept of today. Retailers and wholesalers alike attested to this statement.

Jucl Christensen, of the Christensen Nursery Co., Belmont, Calif., asked whether the concluding words of the definition "by those concerns



Babylon 'Castle Hill', F.C.C., R.H.S.
(Olympus 'Monarch', A.M., R.H.S. x Pauwelsii 'Comte d'Hemptinne', F.C.C., R.H.S.)

We can furnish you unflowered seedlings from the following (and many other) crosses:

Babylon 'Castle Hill', F.C.C., R.H.S. x Spartan Queen

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Prices sent upon request

Why get CYMBIDIUM SEEDLINGS of WORLD FAMOUS DOS PUEBLOS QUALITY?

BECAUSE:

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whose major activities are agricultural or horticultural" differentiated the sale of supplies and equipment—sometimes termed "dry merchandise"—from the sale of plant materials themselves in nurseries or garden shops. Several retail nurserymen asserted that in California and other states where gardens are maintained the greater part of the year the sale of supplies and equipment easily may exceed the sale of stock for planting in annual volume.

Here, again, the commissioner asserted that clearer definitions of the nursery business and its products were needed, as well as a clarification of the terms horticulture and agriculture.

F. T. C. Rules

As at the Chicago hearing, the remaining rules evoked little discussion aside from the commissioner's explanation of those which summarize the provisions of the Clayton act and the Robinson-Patman act.

Dr. White read an additional rule, along the lines of recent codes formulated under FTC authorization. This referred to enticing away the employees of a competitor with the effect of unduly hampering or substantially lessening competition. Such a rule would not debar employ-

ees from seeking better jobs elsewhere or debar employers from obtaining better employees.

Report of the New York session of the conference will appear in the next issue.

ROTARY PRESIDENTS

Occurrence of three presidents of Rotary in one family is believed unprecedented except for the Hartman family at San Jose, Calif. Ray Hartman, president of Leonard Coates Nurseries, Inc., a charter member of the Santa Clara Rotary Club in 1936, became its fourth president. His son, Ken R. Hartman, who joined the same club in 1944, is now president. The other son, Don, who with Ken is co-owner of the Hartman Ranch Co., engaged in the production of frozen foods, is a past president of Sunnyvale Rotary Club.

SAN DIEGO county is now among counties in California having specialists in horticultural crops among its farm advisers. Dan Close, in 4-H Club work since receiving his degree in plant pathology at U. C. L. A., was appointed to that post as of October 1.

MAHONIA AQUIFOLIUM

(Oregon-Washington Holly-Grape)

A very beautiful evergreen shrub with large glossy leaves and yellow flowers conspicuously appearing in the spring and followed by dark blue berries; a most satisfactory broad-leaved evergreen for any place in the United States.

1-yr. seedlings, field-grown, row-run
\$35.00 per 1000; \$5.00 per 100.

TRANSPLANTS: Mahonia Aquifolium
1-yr. transplants (undercut to insure a good root system.)

\$15.00 per 100

TERMS—Check is requested before shipment; or will ship C.O.D. if preferred. All orders shipped same day they are dug, via railway express.

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Place your order now for fall, 1954, or spring, 1955, delivery.

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MOUNT VERNON NURSERY**
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GOLD MEDAL LILIES

The Finest Northwest-Grown
Hybrids & Species

Hardy Cyclamen a Specialty
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Minimum order, \$3.50

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AZALEAS for landscape planting and forcing. Amoena, Atlanta, Boudoir, Coral Bells, Fedora, Flame, Gardenia, Hino-Crimson, Hinodegiri, Hinomayo, Ledifolia alba, Maxwell, Mrs. Pickering, Pink Pearl, Red Progress, Sherwood Orchid, Sherwood Red, Supreme, Sweet Briar, Twenty Grand. Priced at \$35.00 per 100 and up.

Also small sizes B&B, Euonymus, Hemlocks, Hollies and Red Weigela.

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see your ad in the American Nurseryman.

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RASPBERRY PLANTS

Revolutionary new Durham off-season red raspberry plants. Bears mid-August to mid-October. Cut all canes back to the ground each fall; crop comes on the new growth each year. Eliminates winterkilling. Up to 3/16 in., \$50.00 per 1000; 3/16 in. to 1/4 in., \$75.00 per 1000; 1/4 in. and up, \$85.00 per 1000. Also Madawaska, red raspberry bearing two weeks earlier than Latham, 3/16 in. and up, \$85.00 per 1000. September Everbearing Raspberry, the best two crops a year, 3/16 in. and up, \$100.00 per 1000. All F.O.B. shipping point. Write for free catalog.

Strawberries—25 standard and everbearing varieties.

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A NEW BLUE SEEDLESS GRAPE, nearly as large as Concord, but much sweeter, hardier, earlier and heavier bearing than Concord. Just as vigorous and healthy. Ripens with Moores Early. Fifteen years under test. Who wants to buy this valuable grape with its sole propagating rights?

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STRAWBERRY PLANTS

Blakemore strawberry plants, \$6.00 per 1000. Mastodon everbearing strawberry plants, \$8.00 per 1000.

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DIRECT FROM THE GROWER QUALITY GUARANTEED

Our new wholesale price list for fall, 1954 offers a choice assortment of imported as well as domestic-grown bulbs and plants. You will find the best in the new as well as all popular kinds of:

Tulips Hardy Lilies
Narcissi Dutch Irises
Hyacinths Muscari
Crocus Hardy Phlox

And many other desirable items for forcing and outside planting.
Ask for your copy today. It will be to your advantage.

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P. O. Box 123 Benton Harbor, Mich.

HOLLAND-GROWN BULBS

DARWIN TULIPS, first size, 11 to 12 cm., 5c ea. Jubilee, blue; Wm. Pitt, red; Pride of Haarlem, red; Yellow Giant, yellow; Princess Elizabeth, rose; Wm. Copland, lavender; Queen of Night, blue-black; Zwanenburg, white; Bartigon, dark red; Clara Butt, pink; Dido, salmon-orange; Kansas, white with yellow center.

PARROT TULIPS, 7 1/2 c ea.
Blue Parrot, blue; Fantasy, rose inside salmon; Orange Favorite, orange; Sunshine, bright yellow; Therese, fiery rose-scarlet, large-flowering.

REMBRANDT TULIPS, 7 1/2 c ea.
Cordell Hull, variegated, white and red.

COTTAGE TULIPS, 7 1/2 c ea.
Marjorie Bowen, pink and salmon; G. W. Leak, crimson and orange.

FOSTER TULIPS, 10c ea.
Red Emperor, large brilliant scarlet.

HYACINTHS, bedding size, 15 to 16 cm., 10c ea. Pink Pearl, deep rose; La Victoire, brilliant carmine-red; L'Innocence, pure white; Blamarch, sky-blue; King of the Blues, deep blue; City of Haarlem, golden-yellow.

CROCUS, blooming size, 7 to 8 cm., 4c ea. King of the Blues, King of the White, Golden Yellow and King of the Striped, white and blue.

MUSCARI (Grape Hyacinth), 2c ea. SCILLA, champ. mixed, 2 1/2 c ea.

SNOWDROPS, 8 to 9 cm., 4c ea. GIANT YELLOW TRUMPET DAFFODILS,

1 1/2 c ea. King Alfred, Solario, Golden Harvest and Music Hall.

DUTCH IRIS, 8 to 9 cm., 5c ea. Golden Harvest, White Excelsior and Wedgwood.

BENTON COUNTY NURSERY CO., INC.
Dept. 8 Rogers, Ark.

NEW HEMEROCALLIS (DAY LILIES)
Heavy field divisions.

Per doz. Per 100

Crocus, rich amber-yellow.....\$5.75 \$30.00

Crusader, Indian red.....5.75 30.00

Dido, clear, soft apricot.....5.75 30.00

Indian Sunset, soft chestnut-brown.....5.50 25.00

J. A. Crawford, rich apricot-yellow.....4.75 20.00

Linda, pale amber-yellow.....5.75 30.00

Magnificence, Chinese coral.....5.50 25.00

Mongolia, bronzy Chinese coral.....5.50 25.00

Morocco Beauty, velvety maroon-chestnut.....4.75 20.00

Rajah, light burnt orange.....5.50 25.00

Stromboli, old gold.....5.50 25.00

Summer Fringe, ruby-red, golden throat.....5.50 25.00

Tasmania, Chinese coral, golden-yellow center.....4.75 20.00

The Gem, deep orange-yellow.....4.75 20.00

25 or more plants of one variety at 100 rate.

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Mentor, O.

DAY LILIES

Per 100

Autumn Red, an open, velvety red...\$ 3.50

Canary, satiny canary-yellow.....15.00

Matador, a bright, rich red.....5.00

Moonray, pale yellow with halo of Pompeian red, recurved petals....5.00

Peachblow, very fine salmon-peach...3.50

Persian Princess, deep red to purple. A choice variety.....3.50

Starlight, rich blooming tawny-orange Starlight, tall, early-blooming with large flowers of the palest yellow...5.00

Talisman, true Talisman-pink.....5.00

Theron, lovely port-wine. One of the finest.....3.50

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BULBS

Jonquills, old fashioned, fragrant, golden cluster. Round and D. N. bulbs, 1-in. diameter and up. Prepaid, \$27.50 per 1000.

Mixed Bulbs—Daffodils, Jonquills. Doubles, singles, bicolors, round and D. N. bulbs, 1-in. diameter and up. Prepaid, \$27.50 per 1000.

Byzantium rubra, new winter, hardy gladiolus.

Plant fall or very early spring. Multiplies rapidly; large blooming size. Prepaid, \$12.50 per 100.

GABLE'S NURSERY
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HEMEROCALLIS

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Each Per 100 Each per 250 or more

Pacific Giant Hybrids, named varieties or mixed, No. 1.....\$0.12 \$0.11

No. 2, row crop, choice......07 .06

Wrexham Hybrids, mixed......06 .05

Gold Medal Hybrids, mixed......06 .05

Lamartine, dark blue, white eye......06 .05

Belladonna, light blue......05 .04

Bellamosum, dark blue......05 .04

All strong, healthy, field-grown stock, packed right for safe delivery. Hardy plant list gladly sent on request.

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EVERGREENS

Liners grown in outside beds for 1, 2 and 3 years as specified. Each

Azaleas: Amoena, Claret, Ethelwyn, Flame, Galety, Greeting, Herbert, Hinodegiri, Hino-Crimson, Hinomayo, and Salmon Beauty, 1-yr.\$0.25

Buxus arborescens, 2-yr.20

Buxus sempervirens, 1-yr.15

Chamaecyparis filifera, 2-yr.25

Chamaecyparis obtusa, 2-yr.20

Chamaecyparis pisifera, 2-yr.20

Chamaecyparis plumosa aurea, 2-yr.20

Chamaecyparis plumosa, 2-yr.20

Chamaecyparis pisifera aurea, 2-yr.20

Cotoneaster salicifolia, 1-yr.20

Ilex aquifolium, 1-yr.50

Ilex aquifolium pyramidalis, 1-yr.50

Ilex cornuta (male), 1-yr.50

Ilex cornuta (female), 1-yr.50

Ilex cornuta burfordi, 1-yr.50

Ilex crenata, 1-yr.15

Ilex crenata, 2-yr.20

Ilex convexa, 1-yr.15

Ilex convexa, 2-yr.20

Ilex rotundifolia, 1-yr.15

Ilex glabra, 1-yr.15

Ilex opaca (female), 1-yr.50

Ilex opaca Arden, 1-yr.50

Juniper, Armstrong, 2-yr.35

Juniper, Hetz, 2-yr.30

Juniper, Pfitzer, 2-yr.35

Juniper, Pfitzer, 3-yr.40

Ligustrum lucidum repandens, 1-yr.30

Ligustrum lucidum erectum, 1-yr.30

Ligustrum lucidum erectum, 2-yr.35

Osmandus aquifolium, 1-yr.35

Picea pungens glauca, 5-yr. T.40

Prunus laurocerasus schipkaensis, 1-yr.40

Pyracantha occidentalis lalandi, 1-yr.30

Taxus baccata aurea, 2-yr.25

Taxus browni, 2-yr.20

Taxus cuspidata, 2-yr.20

Taxus hatfieldi, 2-yr.25

Taxus hicksi, 2-yr.20

Taxus, Vermeulen, 2-yr.20

Thuja occidentalis globosa, 2-yr.20

Thuja occidentalis nigra, 2-yr.25

Thuja occidentalis pyramidalis, 2-yr.20

Tsuga canadensis, 2-yr.30

Minimum 25 of a kind, please. Packing free. Write for our complete list of liners and finished stock.

DEL-MAR-VA NURSERIES
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SURPLUS STOCK

All plants well-sheared, three times transplanted, B&B. Each

50 English Juniper, 5 to 6 ft.\$2.00

50 English Juniper, 4 to 5 ft.1.75

50 Irish Juniper, 5 to 6 ft.2.00

100 4 to 5 ft.1.50

100 3 to 4 ft.1.25

25 Canaert Juniper, 4 to 5 ft.3.00

100 Baker Arborvitae, 4 to 5 ft.1.50

100 Baker Arborvitae, 3 to 4 ft.1.50

100 Bonita Arborvitae, upright, 3 to 4 ft.1.50

100 Bonita Arborvitae, upright, 2 to 3 ft.1.25

25 Pyramidal Arborvitae, 3 to 4 ft.1.50

25 Fruitland Arborvitae, 3 to 4 ft.2.00

25 Magnolia Soulangiana, 4 to 5 ft.2.50

Also several plants in odd sizes. 20 miles from Paducah, Ky.; 50 miles from Cairo, Ill.

ROY SCHMAUS NURSERY
Benton, Ky.

LINING-OUT STOCK

	Per 100
Abelia grandiflora, 6 to 8 ins., X.....	\$15.00
Arborvitae, boothii, 4 to 6 ins., X.....	17.50
Arborvitae, boothii, 6 to 8 ins., X.....	22.50
Arborvitae, compacta erecta, 4 to 6 ins., X.....	17.50
Arborvitae, compacta erecta, 6 to 8 ins., X.....	22.50
Arborvitae, elegantissima, 12 to 14 ins., X.....	30.00
Arborvitae, globosa, 6 to 8 ins., X.....	22.50
Arborvitae, globosa, 10 to 12 ins., X.....	27.50
Arborvitae, nigra, 4 to 6 ins., X.....	17.50
Arborvitae, nigra, 6 to 8 ins., X.....	22.50
Arborvitae, plicata, 4 to 6 ins., X.....	17.50
Arborvitae, pyramidalis, 4 to 6 ins., X.....	17.50
Arborvitae, bakeri, 10 to 12 ins., X.....	25.00
Herberis julianae, 4 to 6 ins., X.....	18.00
Herberis julianae, 6 to 8 ins., X.....	22.50
Buxus suffruticosa, 4 to 6 ins., X.....	20.00
Buxus suffruticosa, 6 to 8 ins., X.....	27.50
Buxus japonica, 6 to 8 ins., X.....	16.50
Buxus japonica, 8 to 10 ins., X.....	20.00
Hex convexa bullata, 6 to 8 ins., X.....	22.50
Hex convexa bullata, 10 to 14 ins., X.....	30.00
Hex crenata, 6 to 8 ins., X.....	22.50
Hex crenata, 10 to 12 ins., X.....	30.00
Hex rotundifolia, 4 to 6 ins., X.....	17.50
Hex rotundifolia, 6 to 8 ins., X.....	22.50
Juniperus, Andorra, 6 to 8 ins., X.....	22.50
Juniperus glauca hetzi, 6 to 8 ins., X.....	22.50
Juniperus glauca hetzi, 8 to 10 ins., X.....	25.00
Juniperus sylvesteris, 6 to 8 ins., X.....	22.50
Juniperus vonehron, 12 to 14 ins., X.....	27.50
Pyracantha coccinea, 3 to 4 ins., X.....	35.50
Retinospora ericoides, 8 to 12 ins., X.....	25.00
Retinospora ericoides, 12 to 14 ins., X.....	27.50
Retinospora filifera, 4 to 6 ins., X.....	17.50
Retinospora filifera, 8 to 10 ins., X.....	22.50
Retinospora plumosa, 6 to 8 ins., X.....	17.50
Retinospora squarrosa, 4 to 6 ins., X.....	15.00
Taxus hatfieldi, 8 to 10 ins., X.....	27.50
Taxus hatfieldi, 10 to 12 ins., X.....	17.50
Taxus Harrisonii, 6 to 8 ins., X.....	22.50
Taxus Harrisonii, 8 to 10 ins., X.....	27.50
Taxus Harrington Plum, 8 to 10 ins., X.....	27.50
Taxus Jeffrey's, 4 to 6 ins., X.....	17.50
Taxus, Vermuelen, 6 to 8 ins., X.....	22.50

For full delivery, write for complete list.

ESHAM'S NURSERY
Millsboro, Del.

SURPLUS NURSERY STOCK, FALL, 1954

	Each
ARBORVITAE	
1000 Globe A., 12 to 15 ins., B&B.....	\$1.00
650 Globe A., 15 to 18 ins., B&B.....	1.25
350 Pyramidal A., 3 to 4 ft., B&B.....	2.25
200 Pyramidal A., 4 to 5 ft., B&B.....	3.00
HEMLOCK, sheared plants.	
1000 24 to 30 ins.	2.00
1500 30 to 36 ins.	2.50
1500 36 to 42 ins.	3.25
1000 42 to 48 ins.	4.00
500 4 to 5 ft.	5.50

JUNIPERS

2000 Pfitzer J., 18 to 24 ins.	2.25
300 Pfitzer J., 24 to 30 ins.	2.75
100 Pfitzer J., 30 to 36 ins.	3.25
500 Golden Spreader J., 18 to 24 ins.	1.50
500 Column J., 18 to 24 ins.	1.00
500 Column J., 24 to 30 ins.	1.25
500 Column J., 30 to 36 ins.	1.50
1750 Column J., 4 to 5 ft.	2.00
123 English J., 4 to 5 ft.	2.75
5 to 6 ft.	3.50
54 Spiny J., 4 ft.	3.50
200 Spiny J., 18 to 24 ins.	1.50
350 Spiny J., 15 to 18 ins.	1.25
300 Ashford J., 3 to 4 ft., bushy	2.25

BROAD-LEAF STOCK

200 Dahoon Holly, 18 to 24 ins.	2.00
100 Dahoon Holly, 24 to 30 ins.	2.50
1250 Euonymus, patens and carrieri, 15 to 18 ins.	1.50
1250 Euonymus, patens and carrieri, 18 to 24 ins.	1.75
250 Elaeagnus, 30 to 36 ins.	2.25
AZALEAS	
Hinodegiri, Snow, Coral Bells, Salmon Beauty, 12-in. heads shipped from 6-in. pots. Fall delivery, \$1.25 ea., spring, 1955 delivery, \$1.50 ea.	
2000 Euonymus liners, patens and carrieri, \$15.00 per 100, \$135.00 per 1000. Small leaf hardy Ivy, \$100.00 per 1000.	

TRITTSCHLER'S GREENHOUSES

4425 W. Lawn Dr. Nashville 9, Tenn.

HARDWOOD CUTTINGS

Unrooted hardwood cuttings from our own blocks and plantings. Hand-trimmed, ready for bed planting. Guaranteed true to name. Per 1000

Andorra Juniper	\$10.00
Bark Juniper	15.00
Hetz Blue Juniper	15.00
Hill's Dundee Juniper	15.00
Irish Juniper, fastigiata	10.00
Keteleer Juniper	15.00
Meyer Juniper	20.00
Pfitzer Juniper	10.00
Savin Juniper	10.00
Spiny Greek Juniper	15.00
Juniperus virginiana canaerti	15.00
Juniperus virginiana glauca	15.00
Dark Green Arborvitae, nigra	10.00
Globe Arborvitae	10.00
Pyramidal Arborvitae	10.00
Retinospora plumosa pisifera	15.00
Siberian Arborvitae, waresana	10.00
Upright Yew, Taxus capitata, tips	15.00
Spreading Yew, Taxus cuspidata	10.00

Delivery at any time. 250 at 1000 rate.

Packed free. Cash with order, please.

BOB NEPRAH NURSERIES

Rt. 2 Cedar Rapids, Ia.

LINING-OUT STOCK

	Per 100	Per 1000
Scotch Pine, Available in certified Riga, Dark Green French, certified German, Polish and Austrian Hill strains.		
2-0, 3 to 6 ins.	\$2.50	\$15.00
2-0, 3 to 8 ins.	3.00	18.00
Austrian Pine, 2-0, 3 to 8 ins.	3.00	18.00
Mugho Pine, 2-0, 2 to 4 ins.	3.50	20.00
2-1, 4 to 6 ins.	5.00	35.00
Red Pine, 2-0, 2 to 4 ins.	2.50	15.00
Black Hill Spruce, 2-0, 2 to 4 ins.	3.50	20.00
Black Spruce, 2-0, 2 to 8 ins.	5.00	25.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.	3.50	20.00
2-1, 3 to 4 ins.	5.00	35.00
Norway Spruce, 2-0, 2 to 6 ins.	3.50	20.00
2-1, 3 to 6 ins.	5.00	35.00
White Spruce, 2-0, 2 to 4 ins.	3.50	20.00
2-1, 3 to 6 ins.	5.00	35.00
American Arborvitae, 2-1, 3 to 4 ins.	5.00	35.00

Terms: 2 per cent, cash with order.
Potted Juniper, Arborvitae, Spruce, etc., available at nursery. Write for complete list.
EVERGREEN NURSERY
Rt. 2, Box 291
Grand Haven, Mich.

2-YR. EVERGREEN SEEDLINGS

	Per 100	Per 1000
Austrian Pine (Cert. Alps), 4 to 9 ins.	\$ 7.25	\$36.25
Colorado Blue Spruce, seed from blue trees, 3 to 7 ins.	7.95	37.50
Douglas Fir, 5 to 10 ins.	8.75	41.50
Japanese Black Pine, 6 to 12 ins.	7.75	36.75
Scotch Pine (Cert. Austrian), 6 to 12 ins.	7.75	36.50
Scotch Pine (West Europe), 4 to 9 ins.	7.25	36.25

3-YR. EVERGREEN SEEDLINGS

Colorado Blue Spruce, seed from blue trees, 6 to 12 ins.	12.75	61.50
Douglas Fir, 6 to 12 ins.	10.75	51.00
Mugho Pine (Cert. Tyrolean), 5 to 8 ins.	10.75	51.50
Norway Spruce, fast-growing strain, 6 to 12 ins.	9.00	46.50
Scotch Pine (Cert. Riga), 12 to 20 ins.	10.75	46.75
4-YR. EVERGREEN SEEDLINGS		
Balsam Fir, 4 to 7 ins.	8.75	41.00
Black Hills Spruce, 6 to 14 ins.	15.00	75.00
Colorado Blue Spruce, transplants, seed from blue trees, 2 and 2-yr., 6 to 9 ins.	20.00	

We pay parcel post up to 4th zone terms.

Remittance with order.

NEUNER'S EVERGREEN NURSERY

368 Elcher Rd., Rt. 856

Emsworth, Pittsburgh 2, Pa.

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS

Each—Per 100 Per 1000

Arborvitae, American Dark Green, 1-yr.	\$0.20	\$0.18
Arborvitae, Globe Wreath, 2-yr. ....	.20	.18
Euonymus alatus compactus, 2-yr. pots ....	.18	.16
Juniperus chinensis pfitzeriana, 1-yr. pots ....	.24	.22
Viburnum burkii, 1-yr. ....	.22	.20

HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

Euonymus alatus compactus, 10 to 12 ins. ....	.09	.08
Euonymus erectus, 10 to 12 ins. ....	.07	.06
Euonymus patens, 10 to 12 ins. ....	.07	.06
Euonymus vegetus, 10 to 12 ins. ....	.07	.06
Juniper, Swedish, 10 to 12 ins. ....	.10	.09
Juniperus chinensis pfitzeriana, 6 ins. ....	.13	.12
Juniperus glauca hetzi, 10 to 12 ins. ....	.11	.10
Taxus cuspidata, 10 to 12 ins. ....	.10	.09
Taxus intermedia, 10 to 12 ins. ....	.11	.10
Taxus media, spreading, 10 to 12 ins. ....	.11	.10

Terms: 2% discount and free packing for cash with order. Our stock guaranteed 100% satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

SEEDLINGS

	Per 100	Per 1000
Douglas Fir, 2-yr., 5 to 9 ins.	\$6.00	\$30.00
Douglas Fir, 2-2, 8 to 12 ins.	8.00	40.00
Ponderosa Pine, 3-yr., 8 to 14 ins.	7.00	35.00
Ponderosa Pine, 3-yr., 5 to 8 ins.	5.00	25.00
Scotch Pine, 2-yr., 7 to 11 ins.	7.00	35.00
Colorado Blue Spruce, 2-yr., 2 to 5 ins.	5.00	25.00
Colorado Blue Spruce, 2-yr., 3 to 6 ins.	7.00	35.00

F.O.B. Denver. Remittance with order.

WESTERN EVERGREENS

3260 Field St. Wheat Ridge, Colo.

HOLLY

	Per 100
Hex cornuta femina (Chinese Holly), 4 to 6 ins.	\$16.00
Hex cornuta femina, 6 to 8 ins.	18.00
Hex cornuta femina, 8 to 10 ins.	20.00
Hex cornuta burfordi, 4 to 6 ins.	15.00
Hex cornuta burfordi, 6 to 8 ins.	16.00
Hex cornuta burfordi, 8 to 10 ins.	18.00
Hex crenata rotundifolia (Japanese Holly), 6 to 8 ins.	14.00
Hex crenata rotundifolia, 10 to 12 ins.	16.00
Hex crenata bullata convexa, 6 to 8 ins.	16.00
Hex opaca femina (Selected American Holly), 6 to 8 ins.	25.00
Hex opaca howardii (Improved American Holly), 8 to 10 ins.	18.00
Hex cassine angustifolia, 6 to 8 ins.	16.00

OUR HOLLIES ARE GROWN FROM EITHER CUTTINGS OR GRAFTS, FROM WELL-BERRIED SPECIMENS, INSURING BERRIES FOR YOU.

OTHER BROAD-LEAVED EVERGREENS

Euonymus patens sieboldianus, 8 to 10 ins.	12.00
Euonymus radicans, 8 to 10 ins.	12.00
Ligustrum lucidum compactum (Griffings Waxleaf), 8 to 10 ins.	12.00
Photinia serrulata, 8 to 10 ins.	18.00
Pyracantha yunnanensis (Red-Berried), 8 to 10 ins.	16.00

TERMS: Packing without cost, 25 per cent with order; balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike Germantown, Tenn.

LINERS FOR FALL AND SPRING

Extra-hardy stock, 2-yr., unshaded.

ROOTED CUTTINGS

Each Per 100

Euonymus carrieri, extra-heavy, 2-yr., in bed \$0.10 |Euonymus vegetus, extra-heavy, 2-yr., in bed10 |

LINERS

Arborvitae, Globe, 2-yr., T, 6 to 10 ins.25 |Buxus sempervirens, 2-yr., T, 6 to 10 ins.25 |Euonymus carrieri, 2-yr., T, 10 to 12 ins.25 |Hemlock, Canadian, 2 to 4-yr., T, 6 to 10 ins.20 |Juniper, Andorra, 2-yr., T, 6 to 10 ins.25 |Juniper, Hetz, 2-yr., T, 6 to 10 ins.25 |Juniper, Pfitzer, 2-yr., T, 6 to 10 ins.25 |Retinospora plumosa aurea, 2-yr., T, 6 to 10 ins.25 |Spruce, Colorado Blue, 4-yr., TT, 5 to 8 ins.22 |Spruce, Norway, 4-yr., TT, 6 to 10 ins.25 |Taxus hicksii, 2-yr., T, 6 to 10 ins.25 |

Cash with order, or 25% down and balance C.O.D. Packing free.

RIDGEVIEW NURSERY

E. Middle Ridge, Madison, O.

NURSERY STOCK

Extra-heavy and Ready for the Field

Per 100

Taxus browni, 3-yr., TT, 10 to 12 ins. \$50.00 |Taxus cuspidata, 3-yr., TT, 10 to 12 ins. 45.00 |Taxus cuspidata capitata, 3-yr., TT, 10 to 12 ins. 55.00 |Taxus media ovata, 3-yr., TT, 10 to 12 ins. 35.00 |

1-YR. FIELD BEDS

Euonymus vegetus, 2-yr., T, 10 to 12 ins. 25.00 |Euonymus vegetus, 3-yr., TT, 12 to 15 ins. 35.00 |Ribes alpinum, 1-yr., T, 8 to 10 ins. 20.00 |Taxus browni, T, 6 to 10 ins. 35.00 |Taxus cuspidata, T, 8 to 10 ins. 30.00 |Taxus cuspidata capitata, T, 8 to 10 ins. 35.00 |Taxus cuspidata nigra, T, 8 to 10 ins. 30.00 |Taxus hicksii, T, 6 to 10 ins. 30.00 |

FRED F. STROHL

1404 N. Anthony Blvd. Fort Wayne, Ind.

EVERGREENS B&B

Each

900 American A. V., 2 to 3 ft. \$2.00 |255 American A. V., 3 to 4 ft. 3.00 |200 American A. V., 4 to 4½ ft., heavy. 4.00 |190 Andorra Juniper, 15 to 18 ins. 1.50 |1100 Andorra Juniper, 18 to 24 ins. 2.00 |60 Andorra Juniper, 3 to 4 ft. 3.00 |200 Blue Hetz Juniper, 18 to 24 ins. 2.00 |1300 Blue Hetz Juniper, 2 to 2½ ft. 2.50 |365 Blue Hetz Juniper, 2½ to 3 ft. 3.50 |80 Irish Juniper, 2½ to 3 ft. 2.25 |100 Irish Juniper, 3 to 4 ft., heavy. 2.75 |350 Pfitzer Juniper, 18 to 24 ins. 2.25 |40 Pfitzer Juniper, 4 ft., heavy. 4.00 |1400 Pyramidal A. V., 2 to 3 ft. 2.25 |900 Pyramidal A. V., 3 to 4 ft. 2.75 |1100 Woodward Globe A. V., 1 to 1½ ft. 1.50 |650 Woodward Globe A. V., 15 to 18 ins. 2.00 |

All evergreens B&B at list prices. Properly sheared. Visitors invited, but call or write in advance, so we will be here. Phone: 146JX.

WHERRY'S NURSERIES, St. Marys, W. Va.

EVERGREENS—Continued

POT-GROWN EVERGREEN LINERS		
	Per 100	Per 1000
Armstrong Pfitzer Juniper, 2-in. pot	\$23.00	\$185.00
Blue Pfitzer Juniper, 2½-in. pot	25.00	200.00
Pfitzer Juniper, 2½-in. pot	25.00	200.00
Woodward Globe Arborvitae, 2½-in. pot	20.00	165.00
FIELD-GROWN LINERS		
Pfitzer Juniper, 2-yr.	45.00	400.00
Excelsa Arborvitae, 2-yr.	40.00	350.00
Pyramidal Arborvitae, 1-yr.	25.00	225.00
Pyramidal Arborvitae, 2-yr.	40.00	350.00
Woodward Globe Arborvitae, 1-yr.	25.00	225.00
Woodward Globe Arborvitae, 2-yr.	40.00	350.00

Write for complete list of potted and field-grown liners and balled and burlapped evergreens.

Terms: Cash with order. Free packing. 300 plants of one variety at 1000 rate. Not less than 50 of a variety. Orders for spring held for one-fourth deposit.

VOGE NURSERY
New Lebanon, O.

PITZER JUNIPERS

Excellent quality.

	Each	Each
	per 10	per 100
2 to 2½ ft.	\$2.80	\$2.50
2½ to 3 ft.	3.20	2.90
Brown, 2 to 2½ ft.	6.00	5.50
Hatfield, 1½ to 2 ft.	5.00	4.50

CANADIAN HEMLOCK

2½ to 3½ ft.	3.50	3.00
CHINESE JUNIPERS (seconds)	2.50	2.00
3½ to 4 ft.	3.50	3.00
4½ to 5½ ft.	3.50	2.50

JUNIPERUS VIRGINIANA GLAUCOA

Globes, 2 to 2½ ft.	4.50	...
DWARF ALBERTA SPRUCE	4.75	...
2 to 2½ ft.	5.25	...
2½ to 3 ft.	5.25	...

Also large specimen stock in variety.

All stock XXX, B&B.

ROSEHED NURSERIES

RE. 83, Chicago Heights, Ill.

SEEDLINGS AND TRANSPLANTS

	Per 100	Per 1000
2-Yr. Seedlings		
Blue Douglas Fir, 3 to 6 ins.	4.00	\$ 25.00
Concolor Fir, 4 to 6 ins.	8.00	...
Concolor Fir, 2 to 4 ins.	6.00	30.00
Scotch Pine, 4 to 8 ins.	4.00	20.00
Colorado Blue Spruce, 2 to 5 ins.	4.00	25.00
3-Yr. Seedlings		
American Arborvitae, 4 to 8 ins.	5.00	30.0
Austrian Pine, 10 to 16 ins.	6.00	35.00
Scotch Pine, 10 to 18 ins.	6.00	35.00
Scotch Pine (Riga), 14 to 20 ins.	8.00	40.00
Colorado Blue Spruce, 3 to 6 ins.	5.00	30.00
Norway Spruce, 4 to 10 ins.	4.00	30.00
4-Yr. Transplants		
Norway Spruce, 8 to 14 ins.	12.00	100.00

Cash with order. Packing free.

All prices F.O.B. Angola.

ARTHUR CASH NURSERY

Lake Shore Rd., Angola, N. Y.

TAXUS

Excellent quality. For fall shipment. Car and trailer loads only, with Japanese Beetle Certificate.

	Each
Taxus capitata (Upright Yew)	
3 to 3½ ft.	\$6.25
3½ to 4 ft.	7.50
4 to 4½ ft.	9.00

Larger sizes up to 9 ft.

Taxus cuspidata (Spreading Yew)

1½ to 2 ft.	3.85
2 to 2½ ft.	4.85

Larger sizes up to 4½ ft.

Taxus hicksii (Hicks Yew)

1½ to 2 ft.	3.25
2 to 2½ ft.	4.00
2½ to 3 ft.	5.00

Larger sizes up to 5 ft.

Also Taxus hatfieldi, T. intermedia, T. Vermeulen, and others. Write for complete list.

BULK'S NURSERIES

Babylon, L. I., N. Y.

HEAVY, POTTED EVERGREEN LINERS

	Per 100
Arborvitae, Pyramidal, 2½-in. pots, 3-yr.	\$16.00
Arborvitae, Globe, 2½-in. pots, 3-yr.	16.00
Buxus sempervirens, 2½-in. pots, 3-yr.	22.50
Buxus sempervirens, 4-yr., T. 10 to 12 ins.	37.50
Buxus koreana, 2-in. pots, 3-yr.	22.50
Juniperus pfitzeriana, 2-in. pots, 2-yr.	15.00
Taxus cuspidata, 2-in. pots, 2-yr.	20.00
Taxus cuspidata, 2½-in. pots, 2-yr.	22.50
Taxus hicksii, 2½-in. pots, 2-yr.	22.50
2-yr., T. 3-yr., 8 to 10 ins.	35.00
2-yr., T. 3-yr., 10 to 12 ins.	37.50

For fall delivery. Cash; packing free.

FLORAL GARDENS

Rt. 35, Eaton, O.

LINING-OUT STOCK

	Each	Each
	per	per
	100	1000
Ilex crenata, field beds, 3-yr., T. 6 to 8 ins.	\$0.30	\$0.25
2-yr., S. 4 to 6 ins.	...	...
1-yr., S. 2 to 4 ins.	...	...
Ilex convexa, field beds, 3-yr., T. 6 to 8 ins.	.35	.30
Juniperus pfitzeriana glauca, field beds, 3-yr., T. 8 to 10 ins.	.35	.32
Taxus cuspidata, field beds, 3-yr., T. 8 to 10 ins.	.35	...
2-yr., T. 6 to 8 ins.	.25	...
Taxus hicksii, field beds, T. 2-yr., 6 to 9 ins., collected seedlings.	.25	...

Cash with order. Free packing.

BROOKFIELD GARDENS

U. S. Rt. 46 Delaware, N. J.

CANADA HEMLOCK

	Per	Per
	100	1000
4 to 8 ins., transplants, 2-2	\$15.00	\$120.00
8 to 12 ins., transplants, 2-2	20.00	180.00
12 to 15 ins., transplants, 2-2	35.00	...
6 to 9 ins., collected seedlings.	4.00	20.00
9 to 12 ins., collected seedlings.	6.00	45.00
12 to 18 ins., collected seedlings.	8.00	65.00
50 at the 100 rate, 500 at the 1000 rate.		

Send for complete list.

ISAAC LANGLEY WILLIAMS

P. O. Box 99 Exeter, N. H.

HEAVY POTTED TAXUS LINERS

From 3½x4-in. rose pots; potted spring of 1953; carried under lath with overhead irrigation.

	Per 100	Per 1000
6 to 8 ins.	\$30.00	\$38.00
8 to 10 ins.	32.00	38.00
3320 Taxus cuspidata		
2680 Taxus hicksii		
1380 Taxus hicksii		

Packing at \$2.00 per 100.

THE LEICHHARDT HILLVIEW NURSERY
Nashville Rd., Bowling Green, Ky.

ENGLISH BOXWOOD

(Buxus suffruticosa)

	Per 100	Per 1000
4 to 6 ins.	\$25.00	\$220.00
6 to 8 ins.	32.00	300.00
8 to 10 ins.	45.00	400.00

Nice compact plants.

Lining-out stock of the better kinds.

Write for Price List

GULF STREAM NURSERY, INC.

Jacques L. Legendre, Pres.

Wachapreague, Va.

LINING-OUT STOCK

	Per 100	Per 1000
2-YR. BEDS		
Arborvitae, Green	\$0.27	.25
Taxus cuspidata	.27	.25
1-YR. BEDS		
Taxus cuspidata	.17	.15
Taxus hicksii	.17	.15

50 of one variety at 100 rate. 300 of a variety at 1000 rate.

DRAKE'S NURSERIES

G-4342 Branch Rd., Flint 6, Mich.

ABELIA GRANDIFLORA (Glossy Abelia)

	Per 10	Per 100
6 to 12 ins., C.	\$ 7.50	...
12 to 18 ins., C.	10.00	...
12 to 18 ins., br. T.	12.00	15.00
18 to 24 ins., br. T.	3.00	25.00
2 to 3 ft., br. T.	4.00	35.00

Write for 24 page catalog.

LOWELL H. MCGEE NURSERIES

Box 341 McMinnville, Tenn. Phone: 3351

	Each
Canada Hemlock, 10 ins., TT, heavy	\$ 0.25
12 to 18 ins., heavy	.50
3 ft., B&B, heavy	3.00
4 ft.	4.00
6 to 7 ft.	7.50
Carolina Hemlock, 6 to 7 ft.	10.00

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

EUONYMUS COLORATUS, 2-yr., field-grown, from pots, under irrigation and clipped.

12 to 15-in. spread, \$38.00 per 100; 12 to 15-in. spread, \$35.00 per 1000.

EUONYMUS MINIMUS, staked upright.

	Each
10 to 12 ins., B&B	\$1.65
12 to 15 ins., B&B	1.85
15 to 18 ins., B&B	2.25

WHITHAM NURSERIES

Agency, Ia.

HEAVY FIELD-GROWN LINERS

	Each
Juniperus pfitzeriana, 9 to 12 ins., XX	\$0.50
Juniperus pfitzeriana, 12 to 15 ins., XX	.60

These are heavy-rooted and far above average. Fall or spring shipment.

Cash with order.

DAMASCUS NURSERIES

Box 216 Damascus, O.

GARDEN CENTER EVERGREENS

ARBORVITAE — Baker, Berckmans, Compacta, Globe and Pyramidal.

JUNIPERS — Andorra, Greek, Hetz, Irish, Fastigate, Pfitzer, Compact Pfitzer, Canaari, Burk and Dundee.

Come see our stock.

FIKE NURSERIES

Hopkinsville, Ky.

EVERGREENS

	Each
Pfitzer Juniper, 2½-in.	\$0.25
Pfitzer Juniper, 18 to 24 ins., B&B	3.25
24 to 30 ins., B&B	4.00
30 to 36 ins., B&B	5.00
Taxus cuspidata, T. cuspidata nana and T. hicksii, 2½-in.	27½

GAIN BROS. GREENHOUSES & NURSERY
Rushville, Ill.

FALL SURPLUS

QUALITY LINERS SHIPPED AT ONCE

EUONYMUS PATENS, Newport strain (Evergreen Winter Creeper).

12 to 15 ins., T. 25c each per 100; 20c each per 1000; 250 at 1000 rate.

Also Euonymus vegetus various sizes. Write.

LINWORTH NURSERY

5785 Godown Rd., Columbus 14, O.

AUCUBA

Heavily rooted liners out of 2½-in. pots. Gold dust plant. \$17.50 per 100, \$150.00 per 1000. 100 minimum quantity. Cash with order.

DESCANSO DISTRIBUTORS, INC.
Wholesale Growers

Chino, Calif.

DWARF BOXWOOD

Border your flower beds and walks with our old English Buxus suffruticosa, several years old. Field-grown, compact, good color, 4 to 6 ins., \$25.00 per 100; 6 to 8 ins., \$50.00 per 100.

PINKSTON NURSERIES

Parrott, Ga.

ROOTED CUTTINGS — Taxus cuspidata, T. cuspidata capitata, T. hicksii, Pfitzer Juniper, Globe Arborvitae, \$8.00 per 100; \$75.00 per 1000.

TRANSPLANTS — Azalea amoena, Pieris japonica, 6 to 8 ins., 16c; 10 ins. and up, 25c.

WESTWOOD GARDENS

Caldwell, N. J.

50,000 TAXUS

2½-pots, \$180.00 per 1000. T. hicksii, T. capitata, T. cuspidata, T. intermedia. Also same varieties, 2-yr. field-grown, 50c ea.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

FALL PLANTING PAYS OFF with good stands and added growth. Write for our complete price list of liners, strong, well-established in 2½-in. and 2½-in. pots.

T. G. OWEN & SON, INC.
Columbus, Miss.

COLORADO SPRUCE, B&B, 2 to 5 ft.; Mugho Pine, 12 to 15 ins., 15 to 18 ins.; Douglas Fir, 5 to 10 ft. Also lining-out stock.

THE PEQUOT NURSERIES
Brainerd, Minn.

PFITZER JUNIPER, 12 to 15 ins., potted in rapid grow mud. After Oct. 15, 20c each per 1000. No packing charge. Write for our wholesale catalog.

KENHAVEN GARDENS
Rt. 1, Box 32 Rogers, Ark.

JAPANESE BLACK PINE
4 to 5 ft., about 350.

PARMENTIER'S ROSES
Grady St., Bayport, L. I., N. Y.

Phone: 8-0811 or 8-2331

EVERGREEN SEEDLINGS
Red Pine, 2-yr., 2 to 4 ins., \$3.00 per 100; \$20.00 per 1000. List of other varieties on request.

C. WILSON'S NURSERY, Pembine, Wis.

PIERIS JAPONICA (Andromeda)

Per 100 Per 1000

2 to 3 ins., T. \$8.00 \$75.00

FLANE VIEW NURSERY Newport, R. I.

KALMIA LATIFOLIA seedlings. Nursery grown or collected. R. K. POHL, Box 990, White Plains, N. Y.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

FRUIT AND NUT TREES

CHINESE CHESTNUT TREES

Row run, culls out, 3-yr.-old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20's in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales.

F.O.B. Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr.-old liners in quantities. Write for prices.

GOLD CHESTNUT NURSERY
Cowen, W. Va.

MULTIPLE VARIETY APPLE TREES

Per 10 Per 100

5-N-1, 4-yr., 6 to 7 ft. \$17.50 \$160.00

5-N-1, 3-yr., 3 to 5 ft. 15.00 135.00

4-N-1, 4-yr., 6 to 7 ft. 15.00 135.00

4-N-1, 3-yr., 3 to 5 ft. 11.00 100.00

3-N-1, 4-yr., 6 to 7 ft. 12.50 110.00

3-N-1, 3-yr., 3 to 5 ft. 9.00 80.00

Write for complete wholesale price list.

WAYNESBORO NURSERIES
WAYNESBORO, VIRGINIA

GERANIUMS

GERANIUMS	
2 1/4-in. Pot-Grown	
REDS	PINKS
Better Times	Irvington Beauty
Improved Ricard	Mrs. Landry
Lady Jane	Mrs. Richard Gloede
Olympic Red	Pleardy
Red Fiat	Salmon Ideal
Red Landry	Salmon Supreme
\$15.00 per 100; \$140.00 per 1000.	
250 at 1000 rate.	
WILSON BROS.	
Box 47, Roachdale, Ind.	

GERBERAS

GERBERAS
16 to 12-month blooming plants, mixed colors. Long-stemmed, large-flowered Duplex types.

\$9.50 per 100 plants.

Seeds of Duplex, 1 oz. \$18.00
Seeds of doubles, 100 seeds \$5.00
FRANK HUNT NURSERY
4670 Sierra Way San Bernardino, Calif.

GROUND COVERS

GROUND COVERS	
	Per 100 Per '000
Ajuga genevensis, field-grown	\$12.50 \$110.00
English Ivy, field-grown	12.50 110.00
Eumonymus radicans coloratus, 2-yr., field-grown	15.00 135.00
rooted cuttings	6.00 55.00
Pachysandra, field-grown	6.25 55.00
2-yr., large plants	7.50 65.00

MOHLE MEADOWLAND NURSERY
Great Meadows, N. J.

VINCA MINOR, MYRTLE PERIWINKLE
Fresh dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000. 30-cane clumps, \$90.00 per 1000.
Pachysandra, strong, 1-yr., rooted, \$55.00 per 1000.
Hall's Honeysuckle, branched, \$45.00 per 1000.

H. C. WAUGH

Boulevard Dr. Belpre, O.

PACHYSANDRA TERMINALIS—strong-rooted cuttings, \$3.75 per 100; \$3.50 per 1000; \$32.50 for any order of 5000 or more.
Prompt shipment. Beetle zone only.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

Phone: Yonkers 6-1473

PACHYSANDRA ROOTED CUTTINGS

\$ 3.75 per 100

\$5.00 per 1000

WESTWOOD GARDENS

Caldwell, N. J.

PACHYSANDRA TERMINALIS

Strong, 1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

HARDY ASTERS

Winter hardy, grow for years without replanting; finest upright cut flower varieties. All heavy, 1-yr., field-grown from pots with all stolons. (M) Medium height, (T) tall, (L) low.

	Per 100	Per 1000
Alaska, fine new white (M)	2.50	20.00
Aleida, garnet-purple (M)	2.50	20.00
Aquila, pale sky-blue (M)	1.50	20.00
Beechwood Challenger, red (L)	2.00	16.00
Beechwood Rival, red (M)	2.50	20.00
Blue Gem, deep violet (M)	2.20	18.00
Blue Gown, sky-blue (T)	1.90	15.00
Cardinal, reddish-rose (T)	3.00	
Edwina, big, light violet (M)	2.50	20.00
Erna, rosy lilac red (M)	2.50	20.00
Janet McMullen, soft rose-pink, largest flowers (M)	2.50	20.00
Jean, double violet (M)	2.30	
Mt. Everest, white (T)	1.80	15.00
Paloma, true deep blue (T)	2.50	20.00
Pink Party, soft pink (M)	2.20	18.00
Prosperity, rosy-pink (M)	1.80	15.00
Red Rover, burgundy (T)	1.30	15.00
Samaria, improved Violetta (T)	2.50	20.00
Selma, beautiful big pink (M)	2.50	20.00
Strawberries and Cream, pink (M)	1.80	15.00
Sunset, sunset pink (L)	1.80	15.00
The Dean, imported large rosy-red (T)	3.00	
Violetta, deep purple (T)	2.20	18.00
White Lady, white, new English variety (T)	2.50	20.00
Winston Churchill, reddish we grow, cushion type (L)	3.50	30.00
Volanda, large lilac-pink (M)	3.00	

DWARF HARDY CUSHION ASTERS

	Per 100	Per 1000
Constance, bluish-pink (L)	1.50	12.50
Couness of Dudley, lilac-pink (L)	1.50	12.50
Peter Harrison, new bright pink (M)	2.20	18.00
Lilac Time, violet-blue (M)	1.50	12.50
Little Blue Boy (L)	2.20	18.00
Little Red Boy (L)	2.50	20.00
Niobe, white (L)	1.50	12.50
Pacific Amaranth, purple (L)	1.80	15.00

HOULENDER NURSERIES COMPANY

Tipp City, O.

HARDY PLANTS

Transplanted, field-grown stock, full root, not divided.

	Each
Anchusa myosotidiflora, heavy, 2-yr. clumps	\$0.12
Aquilegia, Mrs. Scott Elliot's Hybrid, 2-yr.	.10
Crimson Star, 2-yr.	.10
Armeria, Glory of Holland, 2-yr.	.15
Artemisia, Silver King, 1-yr., No. 1	.15
Bleeding Hearts (Dicentra spectabilis), 5 to 8-eye, clumps	.30
5 to 8-eye, clumps	.40
Carnations, Grenadin, 5 colors or mixed, 1-yr.	.08
Campanula medium calycanthema, Cup-and-Saucer, 1-yr.	.08
Dianthus deltoideus, pink, Galety, mixed, 1-yr.	.08
Digitalis, Giant Shirley Hybrid, mixed, 1-yr.	.08
Peterfew, double white, 1-yr.	.08
Gallardia, Dazzler, 1-yr.	.08
Pyrethrum, Robinson, red or mixed, 1-yr.	.08
Platyodon, blue, 2-yr.	.10
Lavandula vera, 1-yr.	.10
Phlox subulata, Emerald Cushion, Pink, Blue Hills, Atropurpurea, red; Alba, white, full clumps, No. 1	.15
Full clumps, No. 2	.10
Phlox, tall varieties (10), write for special list.	

Delphiniums and Pansies, see ad in this issue under same.
Statice latifolia, 2-yr. .15
Scabiosa, Isaac House Hybrids, 2-yr. .15
Sedum spectabile, Brilliant, 1-yr., No. 1 .15
1-yr., No. 2 .10
Tritoma, pitted, 1-yr. .15
Packed right for safe delivery.
KAZOO-GARDENS NURSERY
206 Richard Ave.
Kalamazoo 33, Mich.

HARDY PLANTS

All good strong, field-grown liners.

Group A:

Anchusa, dropmore; Carnation, Grenadin, by color or mixed; Centaurea, blue and rose; Columbine, by color or mixed; Dianthus, Galety, mixed; Echinop, violet; Gypsophila pacifica, pink; Oldhamia; Iberis sempervirens; Iris japonica, mixed, Iris kaempferi; Liatris, September Glory; Lupines, Russell Hybrids; Pyrethrum, mixed; Rudbeckia, orange-yellow; Statice latifolia; Sweet Pea perennial, mixed; Verbascum phoeniceum; Veronica spicata; Yucca filamentosa; Hibiscus, Marvels, mixed.

Prices on all above listed items, Group A: \$4.00 per 100, \$30.00 per 1000. Combination order of 5000 or more, \$27.50 per 1000.

Group B:

Arabis, pink; Alyssum, Basket-of-Gold; Linum perenne, blue; Bellis perennis, by color or mixed; Campanula, Cup-and-Saucer, color or mixed; Coreopsis, Sunburst; Feverfew, double white; Gallardia, Dazzler, Burgundy and Portola; Digitalis, Giant Shirley Hybrid; Dianthus, Spring Beauty; Barbatas, tall and dwarf; Hollyhocks, Chamols, by color; or mixed; Gypsophila paniculata, white; Shasta Daisy, Diener, Alaska, Conqueror, Myosotis and Victoria, blue; Tritoma, hybrids from seeds.

Prices on the above listed items, Group B: \$3.00 per 100, \$20.00 per 1000. Combination order of 5000 or more, \$17.50 per 1000. 25 plants at 100 rate, carefully packed. Write for complete list on hardy plants, etc.

KAZOO-GARDENS NURSERY

206 Richard Ave.

Kalamazoo 33, Mich.

HEAVY FIELD-GROWN PLANTS

	Per 100
Ajuga genevensis	\$15.00
Ajuga reptans rubra	15.00
Alyssum saxatile citrinum	15.00
Alyssum saxatile compactum	12.00
Aquilegia, Mrs. Scott Elliot's Hybrids	12.00
Aster, Harrington's Pink	18.00
Carnation, King of Blacks, scarlet and red, white, yellow shades	12.00
Centaurea montana	15.00
Chrysanthemum maximum Majestic	30.00
Chrysanthemum maximum Mark Riegel	30.00
Coreopsis Mayfield Giant, Sunburst	12.00
Delphinium Belladonna, Bellamosum	15.00
Delphinium English Hybrids, mixed	15.00
Dianthus June Carmine	20.00
Gallardia, Portola Hybrids	12.00
Lythrum Robert	25.00
Lythrum Dropmore Purple	15.00
Morden Pink	15.00
Nepeta mussini	15.00
Penstemon barbatus Pink Beauty	18.00
Penstemon barbatus Rose Elf	20.00
Polemonium Blue Pearl	18.00
Stokesia Blue Moon	18.00
Tritoma Glow, Primrose Beauty, Royal Standard and White Giant	20.00
Veronica incana	15.00
Viola odorata Royal Robe	15.00

Write for complete Wholesale Price List.

KINGWOOD NURSERIES

Mentor, O.

PANSY PLANTS

Giant strain, none better. Giant Swiss and Maple Leaf, also in separate colors, blue, white and yellow, \$1.00 per 100, \$7.50 per 1000. 58 years' experience in growing pansies.

J. C. SCHMIDT, Bristol, Pa.

ORIENTAL POPPIES

Heavy field-grown stock.

Good spring rains have helped produce fine plants.

Immediate delivery.

	Per doz.	Per 100
1500 Barra White	\$6.00	\$35.00
1000 Cerise Beauty	5.75	30.00
2000 Cowichan	6.00	35.00
500 Crimson Pompon (double)	5.50	25.00
500 Curtis Giant Flame	5.75	30.00
500 Curtis Giant Flesh Pink	5.50	30.00
250 Curtis Salmon-pink	5.50	25.00
1500 Helen Elizabeth	4.75	20.00
500 Henri Cayeux Improved	5.50	25.00
750 Indian Chief	6.00	35.00
2000 Mrs. Perry	4.75	20.00
500 Salmon Glow (double)	4.75	20.00
Mixed	4.25	18.00

Below are offered our new giant flowered hybrids. Our own development.

2000 Salome, beautiful French

1000 Sonate, clear, deep rose-pink

2000 Souvenir, vivid poppy-red

500 Sultana, watermelon-pink

1000 Sungod, bright Saturn-red

1000 Surprise, vermilion-red

THE WAYSIDE GARDENS CO.

Mentor, O.

HARDY PLANTS

	Per 100	Per 1000
Alyssum saxatile	\$1.00	\$ 8.50
Aquilegia (Columbine), Mrs. Scott Elliot's Hybrids	1.00	8.50
Arabis alpina	1.00	8.50
Campanula (Canterbury Bells)	1.00	8.50
Carnation, Grenadin, mixed	1.50	12.50
Carnation, Malmaison	1.50	12.50
Chelanthus (Siberian Wallflower)	1.00	8.50
Coreopsis, double	1.00	8.50
Delphinium, Belladonna and Bellamosum	1.00	8.50
Dianthus barbatus, Sweet Wm., pink, red and mixed	1.00	8.50
Dianthus barbatus, dwarf, mixed	1.00	8.50
Digitalis (Foxglove), mixed	1.00	8.50
Feverfew, Ball's Double White	1.00	8.50
Lythrum roseum superbum	1.00	8.50
Primula polyantha	2.00	15.00
Shasta Daisy, Alaska, single	1.00	8.50
Tritoma (Red Hot Poker), Pitzer Hybrids	1.00	8.50
Veronica spicata	1.00	8.50

J. C. SCHMIDT

Otter and Maple Sts. Bristol, Pa.

HARDY FIELD-GROWN PERENNIALS

Aquilegia, separate colors; Arabis; Artemisia; Aubrietia; Campanula; Carnations; Chives; Delphinium Pacific Hybrids; Dianthus; Bleeding Hearts; Digitalis; Doronicum; Gallardia; Geum; Iberis sempervirens; Liatris; Russell Lupine; Myosotis; Phlox subulata, 10 varieties; Primroses; Pyrethrum Daisies; Shasta Esther Reed; Scabiosa, Isaac House; Sedum, 10 varieties; Sweet Williams; Thymes; Trollius; Violas and Violets.

If you haven't received our list, send for it now. 100 more good varieties. Can ship within 24 hrs. of receipt of order. All plants fresh dug for each order.

GEORGE FRANK & SON

Penfield, N. Y.

HARDY PLANTS

	Per 100	Per 1000
Aquilegia, Dobbies' Hybrids, mixed	\$5.00	\$45.00
Delphinium Belladonna, light blue	5.00	45.00
Delphinium Cliveden Beauty, light blue	5.00	45.00
Pyrethrum, Robinson's Hybrids, mixed	5.00	45.00
Shasta Daisy, Alaska, large white	5.00	45.00

NOVOTNY GARDENS

Osage, Ia.

WHY NOT TRY...

HEUCHERA (Coral Bells), coral-pink. Fine for cutting. Attracts hummingbirds. For the border. Grows in sun or shade. Pot plant.

Per 100 Per 1000

Strong plants \$15.00 \$130.00

Strong single divisions \$2.00 100.00

F.O.B. Battle Creek. Minimum order, \$10.00.

VERONA GARDENS

Rt. 5, Box 476 Battle Creek, Mich.

TRANSPLANTED LINERS

	Per 100
Alyssum saxatile compactum	\$5.00
Daisy, Conqueror	4.00
Doronicum caucasicum	6.00
Feverfew, Ball's White	2.50
Geum Lady Stratheden	6.00
Geum Mrs. Bradshaw	6.00
Iberis sempervirens	6.00
Minimum order, \$5.00. F.O.B.	
FRANK KOHLER	
Mikado, Mich.	
ASTER FRIKARTI	Per 100
Strong rooted cuttings	\$10.00
LYTHRUM, MORDEN PINK	
Strong rooted cuttings	6.00
PLANE VIEW NURSERY	
Newport, R. I.	

HARDY PLANTS—Continued

BLEEDING HEARTS	
<i>Dicentra spectabilis</i> , 3 to 5-eye.....	Per 100 \$25.00
<i>Dicentra spectabilis</i> , 5 to 8-eye.....	35.00

Since 1915
ROBINSON GARDENS
Scotts, Mich.

PEONY CLUMPS, blooming size, 3-yr. whole clumps grown from small divisions. All new roots, no rotten centers and all double varieties, mixed. Fine for counter trade, naturalizing or mass effect planting. \$25.00 per 100. Cash, packed free. Sample 25c.

ALTA VISTA NURSERIES
Brady St. Rd. Davenport, Ia.

HARDY FERNS
Ostrich, Lady, Clayton and Maidenhair, \$7.50 per 100; XX size, \$10.00.

STRAND NURSERY CO.,
Taylors Falls, Minn.
America's Best Source
for Hardy Plants in
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

PERENNIALS
New and standard kinds.
New wholesale list now ready.
CARROLL GARDENS
Box 15 Westminster, Md.

Panicle, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

WELLS' BETTER PERENNIALS
WELLS NURSERIES CO. Holland, Mich.
Write for trade list.

HIBISCUS

HARDY HIBISCUS
Fine named varieties.

Per 10
Alexander's Red, 7 to 9 ins., rose-red, \$2.50
Pansy Ross, white, red eye, early..... 2.25
Dahltown Orchid, white, orchid-red
center, orchid-lavender veins..... 2.50
Leora Burgess, very dark red..... 2.25
Mrs. Joseph M. Read, velvety, dark red 2.25
Mrs. J. Herbert Alexander, massive,
8 to 9 ins., white flowers, red eyes..... 3.00
Satan, large dark red..... 3.00

SELECTED MIXTURE
Grown from hand crosses between the above and other varieties, \$1.75 per 10; \$15.00 per 100.

FLEMING'S FLOWER FIELDS
3100 Leighton Ave. Lincoln, Neb.

HOLLY

QUALITY STOCK
9000 *Ilex crenata convexa*, 1-yr., Each
6 to 10 ins., heavy R. C. \$9.07
2000 *Ilex crenata convexa*, S., 2-yr.,
3-in. pots, many promising
varieties..... 18
2000 *Nandina domestica*, 2-yr.,
8 to 12 ins., from beds..... .08
Minimum order 100. Cash with order, please.
BUCHANAN'S NURSERY,
5108 Western Blvd. Raleigh, N. C.

HOLLY
45 English and Hybrid varieties, 25 American, 10 Asiatic. Cutting-grown plants, well-rooted and hardened for spring delivery. Full replacement guaranteed to bona fide nurserymen and florists. Write for stock list and new low prices.

WILMART HOLLY CO.
Box 304
Narberth, Pa.

Cutting-grown female plants out of 3-in. pots.
English Holly, green..... \$40.00
English Holly, variegated..... 45.00
\$9 minimum quantity. Cash with order.

DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
Chino, Calif.

ILEX OPACA (American Holly), yearlings in 4-in. pots. Male or female, \$50.00 per 100, minimum order, named varieties. Visitors welcome. Oldest and largest holly nursery in the east. Free catalog.

EARLE DILATUSH'S HOLLY FARM
U. S. Hwy. 130 Robbinsville, N. J.

OREGON ENGLISH HOLLIES
Cut holly. General nursery stock.
May we quote you?
ALFRED TEUFEL
11414 N. W. Cornell Rd. Portland, Ore.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.
Phone: Yaphank 4-3444

IVIES

HEADQUARTERS FOR QUALITY
HARDY ENGLISH IVY
Nursery grown in the Allegheny foothills.
Strong 2 1/2-in. pots. \$12.50 per 100. Cash with order.

BABCOCK GARDENS
R. 3 Jamestown, N. Y.

IRIS

GERMAN IRIS
Healthy roots from 1-yr. transplant stock.

Per 100
Action Front..... \$12.00
Angelus..... 12.00
Blue Shimmer..... 12.00
Captain Wells..... 12.00
Copper Rose..... 12.00
Elmohr..... 12.00
Fair Elaine..... 12.00
Flora Zenor..... 12.00
Garden Magic..... 12.00
Grand Canyon..... 12.00
Lady Mohr..... 12.00
Ming Yellow..... 12.00
Prairie Sunset..... 12.00
Sunny Ruffles..... 12.00
The Red Douglas..... 12.00
Worthington..... 12.00
25 or more plants of one variety at 100 rate.

IRIS KAEMPFERI

Per Doz. Per 100
Blue Bird, single, rich blue..... \$4.00 \$15.00
Columbia, double, blue
white veins..... 4.00 15.00
La Favorite, white, blue veins,
purple center..... 4.00 15.00
Lucie Marshall, double,
pansy-violet, white veins..... 4.25 18.00
Matchless, double, white, blue
veins, yellow center..... 4.00 15.00
Nishike-Yama, double, mauve,
veined white..... 4.00 15.00
Pyramid, double, violet-purple..... 4.00 15.00
Repsime, double, azure-blue..... 4.00 15.00
Mixed, all colors..... 3.75 12.00
25 or more plants of one variety at 100 rate.

IRIS PUMILA

Atrorivola, wine,
reddish-purple, dwarf..... 4.00 15.00
Excelsa, pale lemon-yellow,
dwarf..... 4.00 15.00
Keepsake, bright yellow..... 4.00 15.00
Sapphire, rich sapphire-blue..... 4.25 18.00
25 or more plants of one variety at 100 rate.

IRIS SILBIRICA

Caesar's Brother, rich
black pansy-violet..... 3.75 12.00
Gatineau, clear blue,
extra large..... 3.75 12.00
Llewellyn, soft blue, large..... 3.75 12.00
Perry's Blue, sky-blue..... 3.75 12.00
Snowcrest, snowy-white..... 3.75 12.00
25 or more plants of one variety at 100 rate.

THE WAYSIDE GARDENS CO.
Mentor, O.

LINING-OUT STOCK

LINING-OUT STOCK

Each
Pfitzer Juniper liners, 2-yr., field-grown,
branched, trimmed, 14 to 15 ins., \$6.65
17 to 18 ins..... .75
19 to 20 ins..... 1.00

In plant hands:

Euonymus patens, small leaf,
6 to 10 ins..... 12 1/2
Andorra Juniper, 6 to 8 ins..... 12 1/2
Blue Hetz Juniper, 6 to 8 ins..... 14 1/2
Pfitzer Juniper, 6 to 8 ins..... 14 1/2
Pfitzer Juniper, 8 to 10 ins..... 20
Savin Juniper, 8 to 10 ins..... 14 1/2
Von Ehron Juniper, 8 to 10 ins..... 14 1/2

Bare root:

Andorra Juniper, 8 to 10 ins..... .06
Blue Hetz Juniper, 6 to 8 ins..... .08
Buddelia Snowball, long spike,
6 to 8 ins..... .06
Blue Spiraea (Caryopteris), 6 to 8 ins..... .03 1/2
Chinese Beauty-Berry (Callicarpa),
8 to 12 ins..... .03 1/2
Desmodium penduliflorum, 6 to 8 ins..... .08
Euonymus coloratus, 8 to 10 ins..... .03 1/2
Euonymus erectus (wild), 6 to 8 ins..... .05
Euonymus patens, large leaf,
6 to 10 ins..... .04
Euonymus vegetus, 4 to 6 ins..... .06
Forsythia Lynwood Gold, 6 to 10 ins..... .08
Forsythia Spring Glory, 6 to 10 ins..... .04
Forsythia Spring Glory, 12 to 18 ins.,
2-yr..... .08
Lythrum Morden Pink, 6 to 8 ins..... .04
Privet, Chinese, Wayside Gardens Shiny,
8 to 12 ins..... .03 1/2
Privet, Regal, 8 to 12 ins..... .03 1/2
Spiraea Anthony Waterer, 3 to 5 ins..... .03 1/2
Spiraea froebelii, 4 to 6 ins..... .03 1/2
Spiraea japonica coccinea, 3 to 5 ins..... .03 1/2
Viburnum opulus nanum (12-in. var.),
5 to 6 ins..... .06
Viburnum opulus nanum (3-ft. var.),
6 to 8 ins..... .08
Weigela, dwarf variegated, 4 to 6 ins..... .05
Weigela Eva Rathke, 4 to 6 ins..... .06
Weigela rosea, 4 to 6 ins..... .04

All prices are for total order of 300 or more.
Less than 300, add 2c per plant. 50 of a variety.

McINICH GREENHOUSES
St. Joseph, Mo.

Azalea cuttings, all varieties, \$50.00 per 1000. Japanese Black Pine, Norway Spruce, Blue Douglas Fir, Colorado Blue Spruce, Carolina Hemlock, Mugho Pine, Ginkgo, Honey Locust and White Dogwood, \$30.00 to \$100.00 per 1000.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.
Phone: Yaphank 4-3444

BEDDED STOCK

1 yr. in the open.

Per 100 Per 1000
Euonymus alatus compactus..... \$20.00 \$180.00
Ilex convexa..... 20.00 180.00
Ilex rotundifolia..... 20.00 180.00
Sarcococca hookeriana..... 25.00
Taxus andersonii..... 20.00 175.00
Taxus brevifolia..... 20.00
Taxus brownii..... 17.50 150.00
Taxus canadensis stricta..... 17.50
Taxus capitata, cutting
grade..... 25.00
Taxus cuspidata..... 17.50 150.00
Taxus hatfieldii..... 17.50 150.00
Taxus hicksii..... 17.50 150.00
Taxus intermedia..... 17.50 150.00

SEEDLINGS AND TRANSPLANTS

1-yr. S..... 4.00 35.00
Abies nordmanniana, 1-yr. S..... 10.00 90.00
Acer palmatum, 1-yr. S..... 6.00 50.00
Acer palmatum, 2-yr. S..... 7.50 65.00
Acer palmatum atropurpureum,
1-yr. S..... 22.50 200.00

Acer palmatum atropurpureum,
2-yr. S..... 32.50
Ampelopsis veitchii, 1-yr. S..... 6.00 40.00
Ampelopsis veitchii, 2-yr. T..... 15.00 125.00
Chamaecyparis obtusa,
2-yr. S..... 3.00 25.00
Cornus florida, 1-yr. S..... 6.00 50.00
Cornus florida, 2-yr. S..... 7.50 65.00
Cornus xanthocarpa, 2-yr. S..... 20.00 150.00
Cryptomeria japonica, 1-yr. S..... 4.00 35.00
Cupressus lawsoniana, 1-yr. S..... 5.00 40.00
Euonymus alatus, 1-yr. S..... 3.50 30.00

Euonymus alatus compactus,
1-yr. S..... 5.00 40.00
Ilex crenata, 2-yr. S..... 10.00 90.00
Picea canadensis, 2-yr. S..... 3.50 30.00
Picea engelmannii, 3-yr. S..... 5.00 40.00
Picea excelsa, 2-yr. S..... 2.50 20.00
Picea pungens, 2-yr. S..... 3.50 30.00
Pinus austriaca, 2-yr. S..... 7.00 60.00
Pinus densiflora, 3-yr. S..... 7.00 60.00
Pinus mugo, Tyr., 3-yr. S..... 6.50 60.00
Pinus resinosa, 3-yr. S..... 7.00 60.00
Pinus strobus, 3-yr. S..... 4.50 40.00
Pinus sylvestris, 3-yr. S..... 6.00 50.00
Pinus thunbergii, 3-yr. S..... 6.50 60.00
Syringa vulgaris, 2-yr. S..... 4.00 30.00
Taxus capitata, 1-yr. S..... 5.00 40.00
Taxus capitata, T., 1-yr. S..... 6.00 50.00
Taxus capitata, T., 2-yr. S..... 16.00 150.00
Tsuga canadensis, 2-yr. T..... 5.00 40.00
Viburnum theifurum, 1-yr. S..... 10.00 90.00

HEAVY, FIELD-GROWN STOCK

Bare-root and ready for Cloverset pots and cash-and-carry trade.

Per 100
Acer palmatum atropurpureum,
15 to 18 ins..... \$400.00
Acer platanoides, 3 to 4 ft..... 40.00
Cornus florida, 2 to 3 ft., bushy..... 50.00
Cornus florida, 3 to 4 ft..... 100.00
Cornus kousa, 3 to 4 ft..... 100.00
Juniperus pfitzeriana, 8 to 12 ins.,
bushy..... 65.00
Juniperus pfitzeriana, 12 to 15 ins..... 75.00
Tsuga canadensis, 12 to 18 ins..... 150.00
Tsuga canadensis, 18 to 24 ins..... 150.00
Viburnum theifurum, 18 to 24 ins..... 60.00

The above stock has been several times transplanted. Special price on large quantities. Full list on demand.

VERKADE'S NURSERIES Wayne, N. J.

QUALITY LINERS

Heavy, one year under bath, 2 1/2-in. pots. 250 plants at 1000 rate.

Each per 1000
Arborvitae, Silyl..... \$9.18
Berkmans Biota (aurea nana)..... 18
Ilex cornuta..... 16
Ilex cornuta burfordii..... 15
Ilex crenata convexa..... 15
Ilex crenata rotundifolia..... 15
Ilex opaca Howard..... 18
Ilex opaca, from heavy bearer..... 18
Juniper, Greek..... 16
Juniper, Irish..... 15
Juniper, Polish..... 15
Juniper, Andorra..... 15
Juniper, Hetz..... 18
Juniper, Pfitzer..... 18
Juniper, Compact Pfitzer..... 18
Juniper, Von Ehron..... 18
Juniper, Oldfield Common..... 20
Juniper, Blue Pfitzer..... 22
Nandina domestica..... 15

Bed-grown stock: *Ilex burfordii*, 2-yr., 15 to 20 ins., 25c; *Laurel* variety, 10c; *Ligustrum lucidum*, 10c; *Photinia serrulata*, 10c.

Terms: Free packing and 2% discount for cash with order. Add 2c per plant on orders of less than 250. Samples on request. Write for prices on B&B stock.

E and S NURSERY
Phone: Columbus, Miss., 5342

Rt. 2 Caledonia, Miss.

LINING-OUT STOCK

Per 100 Per 1000
Euonymus patens..... \$12.00 \$100.00
Euonymus patens, Newport..... 12.00 100.00
Euonymus japonicus..... 15.00
Pyracantha coccinea..... 15.00
Pyracantha lalandi..... 15.00

The above are stock, well-established plants in 2 1/2-in. rose pots.

Juniperus virginiana, bed-grown seedlings,
2 to 4 ins..... 3.00 25.00
4 to 6 ins..... 4.00 35.00

NELSON NURSERY
1309 S. Van Buren
Enid, Okla.

P. O. Box 1162

QUALITY LINERS

	Each
Abies pinsapo, 3-in. pot	\$0.35
Andromeda, 4 to 6 in. br.	.15
6 to 8 in. br.	.20
Azalea mollis, 2-yr., S. X	.10
Clematis montana, 2-in. pot	.35
Daphne cneorum, 2-in. pot	.20
Daphne odora, 2-in. pot	.25
3-in. pot	.45
Gentian acaulis, single div.	.12
Heather, carnea, X	.12
County Wicklow, X	.12
King George, X	.12
Mediterranean Hybrid, X	.12
Verville, X	.12
Juniperus meyeri, 6 to 8 in. X	.25
8 to 10 in. X	.35
Juniperus tamariscifolia, 4 to 6 in. X	.12
6 to 8 in. X	.15
8 to 10 in. br. X	.27
Japanese Maple, 2-yr., S.	.10
Norway Spruce, 3-in. pot, 10 to 12 in.	.35
Rhododendron ponticum, 4 to 6 in. X	.20
6 to 8 in. X	.25
Thuja woodwardii glabrosa, br.	.12
8 to 10 in. X	.25
Viburnum burkwoodii, 2-in. pot	.30
Viburnum davidi, frame, X	.50
Cash with order, please.	

FOUR STAR NURSERY

8215 238th, S. W. Edmonds, Wash.

POTTED STOCK, READY FOR THE FIELD

	Each
Aucuba japonica, variegated, 4x4-in. container	\$0.35
Gardenia radicans, 2 1/2-in. pots	.20
Hex burfordii, 2 1/2-in. pots	.20
Hex burfordii, 3-in. pots	.25
Hex convexa, 2 1/2-in. pots	.20
Hex crenata microphylla, 2 1/2-in. pots	.20
Hex crenata orchardii, 2 1/2-in. pots	.20
Hex helleri, 2 1/2-in. pots	.20
3-in. pots	.30
4-in. pots	.40
Hex rotundifolia, 2 1/2-in. pots	.20
Hex rotundifolia, 3-in. pots	.25
Juniperus hetero, 2 1/2-in. pots	.20
Juniperus pfitzeriana Nick's, 2 1/2-in. pots	.20
Ligustrum lucidum nobilis, 4-in. pots	.25
Ligustrum lucidum pendulum, 4-in. pots	.25
No packing charge. Cash with order, please.	

THE ORCHARD NURSERY

Rt. 3 Raleigh, N. C.

LINING-OUT STOCK

Nicely grown, heavy-rooted stock suitable for container or field planting. SURE TO PLEASE.	Per 100
Camellia sasanqua Roses	\$10.00
Camellia sasanqua Mine-No-Yuki	10.00
Camellia sasanqua Texas Star	10.00
Elaeagnus pungens	12.50
Gardenia fortunei	10.00
Gardenia radicans	10.00
Hex bullata	12.50
Hex cornuta burfordii	12.50
Hex rotundifolia	12.50
Magnolia nigra	30.00
Osmanthus fragrans	12.50
Photinia glabra	12.50
Write for complete listing of Azalea and Camellia liners.	

FLOWERWOOD NURSERY, INC.

Rt. 1, Box 130 Mobile, Ala.

PYRACANTHA LALANDI

2 1/4-in. pot, T., 1-yr.	\$25.00 per 100
4-in. pot, TT., 1 1/2-yr.	60.00 per 100
5-in. pot, TT., 2-yr.	95.00 per 100
2-in. rose pot, 4 to 6 in.	18.00 per 100
1 1/2-in. rose pot, 2 to 5 in.	15.00 per 100

EDWARD GILSON & SON NURSERY, U. S. Rt. 20 Perry, O.

LINERS—ORNAMENTAL ARISTOCRATS
Send for our new, free catalog of lining-out stock of the better ornamentals, including a long list of hardy azaleas. See our display ad on page 37 of the September 15, 1954, issue.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.	Per 100
2 1/4-in. pots, T., 6 to 8 in. br.	\$22.50
3-in. pots, TT., 8 to 10 in. br.	32.50
Immediate shipment. Cash with order.	

BABCOCK GARDENS

Rt. 3 Jamestown, N. Y.

FALL PLANTING PAYS OFF with good stands and added growth. Write for our complete price list of liners, strong, well-established in 2 1/4-in and 2 1/2-in. pots.
T. G. OWEN & SON, INC.
Columbus, Miss.

CHAMAECYPARIS AUREA

2 1/2 to 6 in. transplants	\$17.50 per 100
1 to 3 in. seedlings	7.50 per 100

FRANK KOHLER Mikado, Mich.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the
American Nurseryman Classified Ads.

PANSIES

PANSIES

Swiss Giants, Roggli strain or Florist Select, both mixed, \$3.00 per 1000, 5000 or more, \$7.00 per 1000.
Kazoo-Goliath, mixed, our own Giant mixture, \$6.00 per 1000, 5000 or more, \$5.00 per 1000.

Super Swiss Giants, mixed, \$7.00 per 1000, 5000 or more, \$6.00 per 1000.
All good, strong, healthy plants, field grown in Dow fumed soil. Packed right for safe delivery. Write for hardy plant list.

KAZOO-GARDENS NURSERY

206 Richard Ave.
Kalamazoo 33, Mich.

PEONIES

PEONIES

Double varieties, mixed, 3 to 5-eye divisions. Fine for counter trade, mass plantings. \$25.00 per 100. No charge for packing. Cash with order, please.

LEAVENWORTH NURSERIES

Rt. 3, 12th and Vilas,
Leavenworth, Kan.

Peonies in quantity. Felix Crousse; Karl Rosefield, red; Festiva Maxima, white, and Edulis Superba, pink. All large double, \$30.00 per 100. **GILBERTSON NURSERY**, Kindred, N. D.

TREE PEONIES—HERBACEOUS PEONIES

Write for trade list.

ATHA NURSERY West Liberty, O.

PHLOX

PHLOX SUBULATA

Also known as Creeping Phlox and Moss or Mountain Pink.

Admiration, dainty pink with white eye.
Alba, pure white flowers.
Blue Hills, showy pale blue.
Butterfly, white with lilac blush and purple eye.
Crimson Beauty, classy cyclamen-red.
Sensation, pure pink with red eye.

Prepaid prices on good-size, started transplants from field rows, \$10.00 per 100 or \$95.00 per 1000, 250 or more of one variety at 1000 rate.

Properly packed, labeled and shipped prepaid. Cash please.

TANGLEWOOD FARM

Box 336-N Clinton, S. C.

PHLOX

Our new crop of hardy 1-yr.-old phlox, and also our Creeping Phlox (Phlox stolonifera), look very promising. Ask for our new trade list.

WALTERS GARDENS

Rt. 2, Box 98 Zeeland, Mich.

PHLOX

If interested in phlox and other perennials, write for new list.

HENRY LE POIRE

Rt. 2 Zeeland, Mich.

Classified Ads Offer Maximum

Results at Minimum Cost.

ROSEBUSHES

ROSEBUSHES

2-yr. plants.
Grown, graded and packed to perfection. Complete assortment of varieties.
WRITE TODAY FOR PRICES AND BOOK YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES

D. L. Thompson, Owner
Dept. AN
Tyler, Tex.

NORTHERN OHIO GROWN ROSES

Naturally Matured—Conscientiously Handled
If you have not as yet received it, ask for our list of Hybrid Teas, Floribundas and Climbers in the newest and best varieties. For 30 years a consistently reliable source of finer roses.

GERARD K. KLYN, Inc.

Mentor, O.

ROSA MULTIFLORA JAPONICA

Thornless, large-grown strains good for budding purposes. 12-in. cuttings, \$2.00 per 100; \$8.00 per 1000. 2-yr., grown from 12-in. cuttings, not from seeds, \$5.00 per 100; \$35.00 per 1000. 12 to 18 in., well-br., well-rooted.

FINGER LAKES NURSERIES

Geneva, N. Y.

ROSEBUSHES

Good roses will not be in oversupply. Early bookings are indicated. List now ready. Send for your copy today.

MARTIN'S ROSE NURSERY

P. O. Box 155 Tel: 713 Arp, Tex.

ROSES

The season's best deal. See for yourself. Standard and patent varieties. List to the trade.

NEW LONDON ROSES

Box 876 Overton, Tex.

ROSEBUSHES: Good assortment. No. 1. 30c. No. 1 1/2. 24c. No. 2, 18c in lots 400 and up. List on request. **TATE NURSERY**, Rt. 3, Tyler, Tex. Since 1935.

SEEDLINGS

	Per 1000
Biota orientalis	\$45.00
2-yr., 10 to 14 in.	30.00
1-yr., 3 to 6 in.	15.00
Juniperus virginiana, 4 to 8 in.	60.00

These are carefully packed.

SOUTHERN NURSERY

Rt. 7, Box 245A Oklahoma City 9, Okla.

NANDINA DOMESTICA SEEDLINGS

6 to 8 in., \$8.00 per 100, \$70.00 per 1000.

PINKSTON NURSERIES

Parrott, Ga.

SEEDS

FRESH SEED 1954 CROP

	Per lb.
Chinese Chestnut (Castanea mollissima)	\$1.25
Chinquapin (Castanea pumila)	1.25
White Dogwood (Cornus alba)	.75
Yaupon (Ilex vomitoria)	.75
Gallberry (Ilex glabra)	.75
Long-leaved Pine (Pinus palustris)	3.00
Slash Pine (Pinus caribaea)	5.00
Live Oak (Quercus virginiana)	1.75

STOVALL NURSERY

Leakesville, Miss.

YUNNAN

NEMATODE-RESISTANT PEACH SEEDS

Grown from selected Freestone stock in isolated orchards. \$4.00 per 100; \$30.00 per 1000; 5000 lots, 2 1/2c ea.; 10,000 seeds or more, 2c ea. Prices F.O.B. Princess Anne, Md., or Marshallville, Ga.

Yunnan seeds give added vigor as well as resistance to most root nematodes.

BOUNTIFUL RIDGE NURSERIES

Princess Anne, Md.

MULTIFLORA ROSE SEEDS picked from

thorny, upright plants. Order now for fall delivery from 1954 crop.

1 to 5 lbs. \$3.90 per lb.

6 to 25 lbs. 3.65 per lb.

26 lbs. or more 3.40 per lb.

FARMLAND IMPROVEMENT CO.

Box 124 Yorkville, Ill.

LOVELL PEACH PITS

	Per bu.
1 to 5 bu.	\$2.75
5 to 10 bu.	3.60
10 to 25 bu.	3.45
25 to 100 bu.	3.25

WAYNESBORO NURSERIES

Waynesboro, Virginia

COLORADO NATIVE

EVERGREEN SEEDS

New crop. Order now from the collector.

WESTERN EVERGREENS

3260 Field St. Wheat Ridge, Colo.

TREE SEEDS, domestic and foreign. Get

scarce kinds by ordering early. List.

K. J. BRADEN

Box 187 Milton, N. H.

SHRUBS and TREES

SEEDLINGS

	Per 100	Per 1000
Acer palmatum, 1-yr., 3 to 5 in.	\$ 6.00	\$50.00
Juniperus virginiana, 2-yr., 6 to 12 in.	8.00	50.00
Juniperus virginiana, 8 to 12 in., graded understocks	10.00	75.00
Ligustrum regelianum, S., 12 to 18 in.	10.00	60.00
Ligustrum regelianum, S., 18 to 24 in.	12.00	80.00
Austrian Pine, 2-yr., run of beds	3.00	20.00
2-yr., 3 to 6 in., graded	3.50	25.00
3-yr., 6 to 12 in., graded	6.00	35.00
Scotch Pine, 2-yr., run of beds	3.00	20.00
2-yr., 4 to 8 in., graded	3.50	25.00
3-yr., 6 to 12 in., graded	6.00	35.00
Colorado Spruce, 2-yr., 1 1/2 to 3 in., graded	4.00	25.00
Norway Spruce, 2-yr., run of beds	2.50	15.00
2-yr., 4 to 8 in., graded	3.50	20.00
3-yr., run of beds	4.50	25.00
3-yr., 6 to 12 in., graded	5.00	30.00
Taxus capitata, 2-yr., 3 to 6 in.	10.00	90.00
A complete catalog on request.		

HEASLEY'S NURSERIES

Freeport Rd. Butler, Pa.

LIST NOW AVAILABLE

Write for our new price list on shade trees, shrubbery and evergreens. Good-quality stock at prices you can afford to pay. For example: Compact plants, B&B.

Each

Irish Juniper, 2 to 3 ft. \$1.25

Pfitzer Juniper, 15 to 18 in. 1.50

Nandina, 18 to 24 in. 1.00

ROLLER'S NURSERY

Rogers, Ark.

SHRUBS AND TREES—Continued

1-YR. SEEDLINGS		
	Per 100	Per 1000
Acer palmatum	\$ 5.00	\$ 50.00
Cornus kousa	5.00	50.00
Fagus sylvatica	7.00	65.00
Syringa vulgaris	3.00	25.00

2-YR. SEEDLINGS		
	Per 100	Per 1000
Abies balsamea	5.00	40.00
Abies douglasii	5.00	55.00
Chinese Chestnut	20.00	40.00
Ilex crenata	6.00	50.00
Thuja orientalis	3.50	30.00

3-YR. SEEDLINGS		
	Per 100	Per 1000
Picea alba	3.50	25.00
Picea excelsa	3.50	25.00
Picea pungens glauca	4.50	40.00
Pinus mughus	4.00	30.00
Pinus strobus	3.50	25.00
Pinus sylvestris	3.50	25.00
Thuja occidentalis	5.00	40.00
Tsuga canadensis	6.00	50.00
Tsuga caroliniana	6.00	50.00

1-YR. POTTED GRAFTS		
	Per 100	Per 1000
Cornus florida rubra	65.00	650.00
Picea pungens kosteriana	125.00	1250.00
Picea pungens moerheimii	125.00	1250.00
Pinus cembra	65.00	650.00
Pinus strobus nana	65.00	650.00
Tsuga sargentii canadensis	65.00	650.00
Wistaria multiflora	50.00	500.00

TRANSPLANTS		
	Per 100	Per 1000
Cornus florida, branched, 18 to 24 ins.	50.00	500.00
Picea alba, 6 to 8 ins.	6.00	50.00
Picea excelsa, 6 to 8 ins.	6.00	50.00
10 to 15 ins.	15.00	140.00
Picea pungens glauca	8.00	80.00
Tsuga canadensis, 5 to 8 ins.	10.00	95.00
8 to 10 ins.	15.00	140.00
10 to 12 ins.	20.00	190.00
12 to 18 ins.	30.00	250.00

ROOTED CUTTINGS TRANSPLANTED IN BEDS		
	Per 100	Per 1000
Azalea hindogiri, 4 to 6 ins.	15.00	150.00
Ilex bullata, 4 to 6 ins.	15.00	150.00
Ilex crenata, 5 to 8 ins.	10.00	90.00
Ilex rotundifolia, 5 to 8 ins.	12.00	100.00
Juniper, Hetz, 4 to 8 ins.	12.00	100.00
Juniper, Irish, 4 to 6 ins.	10.00	100.00
Juniper, Pfitzer, 4 to 6 ins.	12.00	100.00
Juniper, Stricta, potted	10.00	90.00
Juniper, Stricta, potted	15.00	150.00
Perla japonica, 4 to 6 ins.	15.00	150.00
Pyracantha islandi, potted	20.00	200.00
Retinospora plumosa aurea, 6 to 8 ins.	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	90.00
Taxus cuspidata, 4 to 6 ins.	10.00	90.00
Taxus hatfieldi, 4 to 6 ins.	10.00	90.00
Taxus hickel, 4 to 6 ins.	10.00	90.00
Thuja globosa, 5 to 8 ins.	10.00	90.00
Thuja nigra, 4 to 6 ins.	10.00	90.00
Thuja vervana, 5 to 8 ins.	12.00	100.00
Viburnum burkwoodi, 12 to 15 ins.	50.00	500.00
Pachysandra	4.00	35.00

VAN DINE NURSERY		
	Per 100	Per 1000
Berdan Ave. Freackness, N. J.		

NURSERY STOCK		
	Per 100	Per 1000
Azalea mollis, 2-yr., L.O.	\$10.00	\$100.00
6 to 8 ins.	20.00	200.00
8 to 10 ins.	30.00	300.00
10 to 12 ins.	40.00	400.00
Euonymus vegetus, 2-yr., T. L.O. stock	10.00	100.00
8 to 12 ins.	20.00	200.00
Ilex convexa, 2-yr., T. sheared, bushy, 4 to 6 ins.	20.00	200.00
6 to 8 ins.	30.00	300.00
8 to 10 ins.	40.00	400.00

NURSERY STOCK		
	Per 100	Per 1000
Lilacs, Florent Stepmann, Ruhm von Horstenstein, Michel Buchner, Hugo de Vries, Ludwig Spath, Pres. Greve, Charles X. Hugo Koster, Mme. Le- moine, Charles Joly, 1-yr. buds, L.O. stock, 10-in. and up, branched	25.00	250.00
1 to 2 ft., branched	35.00	350.00
Taxus cuspidata, 3-yr., T. sheared, 8 to 12 ins.	35.00	350.00
12 to 15 ins.	45.00	450.00
Thuja occidentalis compacta, 2-yr., T. bushy, 6 to 8 ins.	13.00	130.00
8 to 10 ins.	18.00	180.00
Wistaria sinensis, 2-yr., T. sheared, Cash with order earns free packing. One fourth with order and balance before ship- ping, or C.O.D.	35.00	350.00

THE LITTLE MOUNTAIN VIEW NURSERY		
	Per 100	Per 1000
R. D. 1, Rt. 84 Mentor, O.		

FIRST-CLASS STOCK		
	Per 100	Per 1000
We offer first-class stock in the following trees: European White, Cutleaf, and Clump. Flowering Weeping Cherry: Kwan- zan, Mt. Fuji and Amanogawa. Paul's Scar- let Thorne, low and high branched. Flower- ing Crab Apple in all leading varieties. All of the above we offer at a special price in the popular grades. Send for our price list of these and other leading items that we have to offer.		

VILLA NURSERIES		
	Per 100	Per 1000
Montavilla Station P. O. Box 5137 Portland 16, Ore.		

NURSERY STOCK		
	Per 100	Per 1000
Philadelphus virginialis, 3-yr., 3 ft.	\$225.00	\$2250.00
5500 Phila. virginialis, 2 1/2 to 3 ft.	200.00	2000.00
400 Phila. brachybotrys, 4 to 5 ft.	250.00	2500.00
400 Phila. Innocence, 3 to 4 ft.	300.00	3000.00
2500 Forsythia spectabilis, 3 to 4 ft.	225.00	2250.00
2000 Forsythia spectabilis, 2 1/2 to 3 ft.	200.00	2000.00
5000 Salix purpurea nana, 15 to 18 ins.	137.00	1370.00
2500 Salix purpurea nana, 24 to 30 ins.	165.00	1650.00
5000 Salix purpurea nana, 6 to 7 ft.	150.00	1500.00
1000 Populus italica nigra, 5 to 6 ft.	135.00	1350.00
1000 Populus italica nigra, 3 to 4 ft.	100.00	1000.00

ELAN MEMORIAL PARK NURSERY		
	Per 100	Per 1000
116 E. Front St. Berwick, Pa.		

NURSERY STOCK		
	Per 100	Per 1000
Pfitzer Juniper, 18 to 24 ins.	\$2.25	\$22.50
Pfitzer Juniper, 24 to 30 ins.	3.00	30.00
Amur River or 20 in. Liners, 1-yr.	Per 1000	
2 and 3 canes, 9 to 12 ins.	\$35.00	\$350.00
1 cane, 9 to 20 ins.	25.00	250.00

PAUL'S NURSERY		
	Per 100	Per 1000
R. D. 3, Phone: 32161 Shelby, O.		

NURSERY STOCK		
	Per 100	Per 1000
Philadelphus virginialis, 2 1/2 to 3 ft.	\$225.00	\$2250.00
5500 Phila. virginialis, 2 1/2 to 3 ft.	200.00	2000.00
400 Phila. brachybotrys, 4 to 5 ft.	250.00	2500.00
400 Phila. Innocence, 3 to 4 ft.	300.00	3000.00
2500 Forsythia spectabilis, 3 to 4 ft.	225.00	2250.00
2000 Forsythia spectabilis, 2 1/2 to 3 ft.	200.00	2000.00
5000 Salix purpurea nana, 15 to 18 ins.	137.00	1370.00
2500 Salix purpurea nana, 24 to 30 ins.	165.00	1650.00
5000 Salix purpurea nana, 6 to 7 ft.	150.00	1500.00
1000 Populus italica nigra, 5 to 6 ft.	135.00	1350.00
1000 Populus italica nigra, 3 to 4 ft.	100.00	1000.00

NURSERY STOCK		
	Per 100	Per 1000
Philadelphus virginialis, 2 1/2 to 3 ft.	\$225.00	\$2250.00
5500 Phila. virginialis, 2 1/2 to 3 ft.	200.00	2000.00
400 Phila. brachybotrys, 4 to 5 ft.	250.00	2500.00
400 Phila. Innocence, 3 to 4 ft.	300.00	3000.00
2500 Forsythia spectabilis, 3 to 4 ft.	225.00	2250.00
2000 Forsythia spectabilis, 2 1/2 to 3 ft.	200.00	2000.00
5000 Salix purpurea nana, 15 to 18 ins.	137.00	1370.00
2500 Salix purpurea nana, 24 to 30 ins.	165.00	1650.00
5000 Salix purpurea nana, 6 to 7 ft.	150.00	1500.00
1000 Populus italica nigra, 5 to 6 ft.	135.00	1350.00
1000 Populus italica nigra, 3 to 4 ft.	100.00	1000.00

NURSERY STOCK		
	Per 100	Per 1000
Philadelphus virginialis, 2 1/2 to 3 ft.	\$225.00	\$2250.00
5500 Phila. virginialis, 2 1/2 to 3 ft.	200.00	2000.00
400 Phila. brachybotrys, 4 to 5 ft.	250.00	2500.00
400 Phila. Innocence, 3 to 4 ft.	300.00	3000.00
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FRENCH HYBRID LILACS

All on OWN ROOTS—No grafts.

Vigorous, true to name, top quality; should make real specimen plants. Small surplus, beyond our present retail needs, now available for fall shipment.

	Each
50 Congo, rich red-purple, 8 to 12 ins.	\$0.40
40 Congo, 12 to 18 ins.	.55
20 Congo, 18 to 24 ins.	.75
20 Congo, 24 to 3 ft. extra-heavy	1.25
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10 Pres. Loubet, mauve-red double, 18 to 24 ins.	.80

F.O.B. nursery. Cash with order. No packing charge. No orders for less than 5 of a kind.

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100% RED 100% BRANCHED T.

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Ready for 6-in. pots or open field planting.

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Other sizes available.

Shipped bare root, packed in sphagnum.

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RHUBARB

Roudebush's improved McDonald. We are booking orders for fall and spring digging. Grown one year from divisions. No seed stalks; good color. Two-inch plants and larger. Good for forcing. \$10.00 per 100; \$90.00 per 1000.

ASPARAGUS

Washington or Paradise—500 2-yr., heavy plants, well-graded. For fall or spring digging. \$3.00 per 100; \$16.00 per 1000. In bunches of 25, \$2.00 per 1000 extra.

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Rt. 3, Box 397 Dayton 4, O.

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CLEMATIS VINES

Jackman, Lord Neville, Ramona, Ernest Markham, Lanuginosa Candida—No. 1, 4-in. pot plants, well-ripened. In any quantity. Please write us for quotation. Clematis have been our specialty for years. A few items of shrubs also available. Spring Glory, Forsythia, Snowberry, froebel, spectabilis, and Hall's Japanese Honeysuckle.

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Fairport, N. Y.

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PEONIES, pink and mixed, strong divisions, choice sorts, labels missing. \$2.50 per 10; \$20.00 per 100.

CANADA RED RHUBARB, \$25.00 per 100.
STRAND NURSERY CO.,
Taylors Falls, Minn.

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CHRISTMAS TREES

CHRISTMAS TREES

Balsam, Spruce, long needle Pine and Nova Scotia Balsam Christmas trees. Wholesale to dealers and truckers on my lots at Merrillan and Hayward, Wis. Will deliver. Will have 21,000 trees.

BOUGHS

Of long needle Pine (Norway), Balsam, White Pine, Jack Pine and Spruce. Get your order in now.

Cones and evergreen wreaths for Christmas. Also memorial wreaths. Open cones of all kinds.

Evergreen tree seeds from the Great Lakes region: Red Pine, White Pine, Balsam Fir, White Spruce, Black Spruce, American Arborvitae, Norway Spruce and Scotch Pine. For information write:

LESLIE B. RHOADES

Merrillan, Wis.

Phone: 79

CHRISTMAS TREE BUYERS, ATTENTION

Not just Canadian but Nova Scotia top-quality Balsam Fir trees that really sell. Carload orders only. Your choice of size assortments. Write or phone immediately for prices and further information.

HOFFER CHRISTMAS TREES

209 Colfax Rd. Havertown, Pa.
Phone: Hilltop 6-0748

More customers for you!

Over 8,000 subscribers, all active buyers, see your ad in the American Nurseryman.

DECORATIVES

CHRISTMAS DECORATIONS SINCE 1900
Various evergreen roping and wreaths, sprays, Christmas trees, Nativity scenes, etc. Ask for price list.

APPALACHIAN EVERGREEN CO.
Boone, N. C.

Small Ads Do Great Things in the American Nurseryman Classified Section.

FERTILIZERS

SOLUBLE FERTILIZERS

PETERS SPECIAL AZALEA FERTILIZER
21-10-10 with 3 per cent chelated iron. \$7.25 per 25-lb. bag, \$25.00 per 100 lbs. F.O.B. Allentown, Pa.

ROBERT B. PETERS CO.
739 N. 7th St. Allentown, Pa.

Classified Ads Offer Maximum Results at Minimum Cost.

FLATS

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bdl.

50 pcs. to bundle, 5 ft., \$4.50 per bdl.

50 pcs. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, Ohio

PEONIES—LILACS

PEONIES, 3 to 5-eye divisions. Prices per 10. Couronne d'Or, Baroness Schroeder, Solange, \$3.50. Jubilee, Milton Hill, \$4.50. Martha Bulloch, Mrs. Edward Harding, Therese, \$6.00. Myrtle Gentry, \$7.00.

FRENCH LILACS, choice, heavy, 2 to 3 ft., \$7.50 per 10. 3 to 4 ft., \$10.00 per 10.

Cash with order, please.
HARRY FRANKLIN BAKER, INC.
1910 N. Euclid St. Paul 8, Minn.

EUONYMUS—Patens Newpot, carrier and erecta, 2-in. pot, 10c; 2-yr., T., 20c. 3-yr., T., 30c. Coloratus, 2-in. pot, 10c.

JUNIPERUS HETZLI—2½-in. pot, 15c; 2-yr., T., 35c.

HALTIC IVY—2-in. pot, 10c.

SHASTA DAISY, MAJESTIC—div., 14c. Good Stock. Prompt Shipment.

STRATFORD GARDENS
Russell Breece Delaware, O.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

WANTED

WANTED

1000 2 to 3-in. cal. soft, fast-growing shade trees. Prefers Quince, Elm. Bare-root. For fall, 1954 delivery. Quote prices and shipping to Antioch, Ill.

ANDERSON & CLARK
Rt. 2, Box 195

Arlington Heights, Ill.
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MINNESOTA WHITE CEDAR FLATS

	Per 100
No. 1, 14x20x2½	\$24.00
No. 2, 14x20x3	27.75
No. 3, 12x16x2½	18.50
No. 4, 12x16x3	21.75
No. 5, 14x16x2½	20.75
No. 6, 14x16x3	24.50
No. 7, 15x22x2½	27.25
No. 8, 15x22x3	31.50
No. 9, 11¼x22x2½	23.00
No. 10, 11¼x22x3	26.00
No. 11, 13¼x16x5½	30.00
No. 12, 5x5x11	16.00
No. 13, 5x5x16	18.50

All other sizes quoted on request.

5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are ¾-in. and ends are ¾-in. thick. All material surfaced on one side. All shipments by trucks unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both ends pieces at the following rates: \$1.00 set up charge plus ½ cent per end piece for the first 1000 ends, ¼ cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

H. C. HILL & SONS, Cook, Minn.

HAY

BALED MARSH HAY AND STRAW

For covering. Truckloads or carloads.
KOPFF HAY CO.
Beaver Dam, Wis.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the American Nurseryman Classified Ads.

LABELS

DAHLIA OR TREE LABELS

	Priced per 1000
3½x½ ins., notched (not wired)	\$2.50
3½x½ ins., wired (copper)	3.30
4x½ ins. (cartons 1000 each)	2.90
5x½ ins. (cartons 1000 each)	3.10
6x½ ins. (cartons 1000 each)	3.40
8x½ ins. (cartons 500 each)	5.00
10x½ ins. (cartons 500 each)	6.00

GARDEN STAKES

Price per carton.

8x ½ ins. (cartons 250 each)	1.85	2.15
10x ½ ins. (cartons 250 each)	2.10	2.40
12x1 ½ ins. (cartons 125 each)	1.40	1.60

EVERMARK PENCILS

The original label marker. 1 doz. 7-in. pencils per box. \$1.25.

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOHO & HOOKER

Youngstown 2, O.

ORCHID SUPPLIES

SHREDDED WAXED PAPER, 65c per lb.

10 lbs. \$5.50.

CURSON POT WATERER with aerator tip, \$7.50.

STANDARD TEMPERATURE ALARM. A

must for every greenhouse, \$17.00.

18-in. Double Pot Hangers, No. 10 ga., \$3.00

dozen; reduced price, \$19.50 per 100.

2, 3, 5-in. orchid tubes with natural rubber caps, \$3.25 per 100; \$14.50 per 500; \$24.25 per 1000.

OSMUNDA, \$11.00; 2 bales, \$21.00. F.O.H.

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WRIGHTWOOD FLORAL CO., INC.

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Prices F.O.B. subject to change with notice.

PEAT

CANADIAN PEAT

Easiest to work because of its fine grind. Easiest to sell because of its neat packaging and attractive wrap. Easiest buy because it is always available from INSIDE storage at BOTH Dallas and Scottville.

1 to 9 bales.....\$3.85 ea. Cash Charge

10 or more bales.....3.65 ea. \$2.95 ea.

VERHALEN NURSERY CO.

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12140 Harry Hines Blvd., Dallas, Tex.

SPHAGNUM MOSS

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Clean, long-fibered, standard bales; freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES

50 Pieces to Bundle.

1x1-in.—3 ft., pointed.....\$3.00 per bundle

1x1-in.—4 ft., pointed.....3.50 per bundle

1x1-in.—5 ft., pointed.....4.50 per bundle

1x1-in.—6 ft., pointed.....5.50 per bundle

1x1-in.—7 ft., pointed.....7.00 per bundle

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown, O.

HEAVY BAMBOO STAKES

Per 100 ¼ to ½ in. to ¾ in. to 1 in.

4 ft.\$2.88 \$3.44 \$4.24

6 ft.3.60 4.30 5.30

8 ft.4.32 5.16 6.36

7 ft.5.04 6.02 7.42

8 ft.5.76 6.88 8.68

2000 up, less 5%; 5000 up, less 10%

A. C. PATTERSON, Centertown, Ky.

STAKES, GALVANIZED HARD STEEL

Galvanized Wire

Prices and samples sent upon request.

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PLANT BREEDING FOR EVERYONE.

by John Y. Beatty, \$2.75.

Descriptive book circulars available on request.

These books and others on horticultural subjects may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN

343 South Dearborn

Chicago 4, Ill.

WANTED and FOR SALE ADS

HELP WANTED

PERMANENT POSITIONS FOR EXPERIENCED NURSERYMEN

Unusual opportunity with one of southern California's largest wholesale nurseries for experienced aggressive nurserymen. Permanent, profitable positions combining security with a growing future. Finest working conditions. Beginning salary \$300 per month.

MONROVIA NURSERY CO.

Box 196

Monrovia, Calif.

HELP WANTED

Have you an employment problem? Space in these columns is available at low cost to nurserymen who are seeking prospective employees. A want ad in the American Nurseryman puts your job offering before interested and qualified applicants at a fraction of what it would cost you to contact them in any other way.

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

HELP WANTED

Experienced storage foreman. Must be thoroughly experienced in packing methods and have ability to supervise shipping department. Give complete details in first letter. All replies will be acknowledged.

SHERMAN NURSERY CO.
Charles City, Ia.

HELP WANTED

Propagator. Large nursery northwestern Pennsylvania interested in man to take over propagation department. Position open October 1. Please advise age, experience and other particulars deemed advisable first letter. Write to Box 169, care of American Nurseryman.

HELP WANTED

Experienced nursery and landscape man to work for an old-established nursery in Pacific northwest. Give experience, physical description and salary expected. Write Box 107, care of American Nurseryman.

FOR SALE

42-year-old nursery, nicely landscaped, 5½ acres of land; nice 6-room house, oil heated; 15x30-ft. greenhouse, coal heated; plenty of hotbeds and cold frames. 2 acres planted in evergreen trees, some shade trees, shrubs and a few perennials. ½ mi. outside Lowellville on Watertown Rd. About 60 mi. to Utica.

HILLSIDE GARDENS
Lowellville, N. Y.

FOR SALE

8-acre nursery and berry farm. Also 2 dwellings, 2 packing and storage buildings, nursery stock, tractor and tools. 1 mi. from Lowell, Mich. Price, \$14,000. Ill health forces sale.

SMITH NURSERY
R. 3, Lowell, Mich.

HELP WANTED

Supervisor of Kansas University grounds. Management of: upkeep of grounds, trees, shrubs; nursery; greenhouse; as well as execution of landscape plans and supervision of men and equipment. College training in forestry or horticulture desired. Excellent housing. Salary commensurate with training and experience. Apply to:

UNIVERSITY OF KANSAS
Care of R. K. Lawton
225A Strong Hall
Lawrence, Kan.

HELP WANTED

LANDSCAPE SALESMAN

An old, established eastern nursery has an opportunity for an experienced, self-sufficient landscape salesman. The man must have a proven record of top performance in landscape sales. We are willing to offer such a man high earnings and unusual security. Write to Box 104, care of American Nurseryman.

HELP WANTED

Propagator. Eastern nursery interested in man to take over propagation department. Please advise age, experience and salary expected in first letter. Write to Box 97, care of American Nurseryman.

HELP WANTED

Working partner for going nursery. Or we will sell the entire stock at invoice or will sell stock, land, equipment and dwelling. 75 acres of land, 7 acres growing and finished stock and 8-room house, partly modernized. Good, established trade and reputation. Stock and orders on hand for immediate income. Address Box 105, care of American Nurseryman.

SITUATION WANTED

College graduate in horticulture desires permanent position with nursery in sales, growing or other. Excellent training and some experience in design, propagation, maintenance, sales, etc. Twenty-six, veteran, married, references. Write Box 103, care of American Nurseryman.

WANTED TO BUY

Wish to purchase a one-man garden center operation with enough ground for heeling in nursery stock. Must have space for parking facilities. Business must stand rigid inspection. Address replies to Box 108, care of American Nurseryman.

HELP WANTED—Couple on nursery-farm 50 miles east of St. Joseph, Mich. Man interested in good future by promoting outlet connections for a new nursery and landscaping business. Owner can do propagating but need help of interested worker to keep business continually rolling and increasing. Bankers helpful but revenue must grow. Wife to keep house and business records. Home and living furnished with per cent of profits. State additional salary expected. Give full qualifications and references in first letter. Opening October 1. Write Box 106, care of American Nurseryman.

SITUATION WANTED—Deaf, honest man of good habits wants year-round outdoor work, landscaping and horticulture, greenhouse growing and landscape gardening. High mechanical ability and artistic interest. My greatest joy—to be with others. 4-year high school education. Graduate of landscape architecture course, American Landscape School. Prefer mild climate. Write Box 100, care of American Nurseryman.

SHADE TREE CONFERENCE

[Continued from page 10]

Tree Conference research project on chemotherapy was given by Howard S. Potter, of the department of botany, University of Maryland, College Park. The objective of the project is control of the Dutch elm disease through introduction of chemicals into the plant, Mr. Potter explained. No material has yet been found, he said, that effectively controls the disease. Using slides to supplement his written report, he told of growing the plants in nutrient solutions and described the mechanical device by which the roots were brought in contact with the chemicals at regular intervals. Some of the materials appear to be promising, he said, and the work is being continued.

In his discussion of "The Control of Some Gall Insects," Dr. R. B. Neiswander, of the Ohio agricultural experiment station, Wooster, said that plant galls are caused by stimulation of cells from outside influences, and he listed aphids, midges, mites, gallflies and gall wasps as gall-making insects. Although galls seldom cause serious permanent injury to trees, increasing public interest in shade trees and ornamentals has stimulated research work directed toward methods of control, Dr. Neiswander said. Using color slides, he described a number of species of gall-making insects and suggested control measures as follows:

Hickory gall aphids: The galls are about ½ to ¾ inch in diameter and develop in the leaf stem and twigs early in the spring. For control, Dr. Neiswander recommended a spring spray of Malathion.

Spruce gall aphids: Malathion, applied May 6, did not give good control, but Dr. Neiswander said the poor results may have been caused by the time of application; if the spray had been applied earlier in the season, the results might have been better. He suggested a spray of dormant lime-sulphur for control.

Woolly apple aphid and cockscomb gall aphid: Spring sprays of nicotine sulphate, Malathion or Parathion were suggested as control measures.

Maple bladder gall: This gall is caused by mites feeding on the undersurface of leaves. Suggested control measures include sprays of dormant lime-sulphur, Malathion or Parathion.

Leaf Miners Discussed

Dr. J. G. Matthyse, Cornell University, Ithaca, N. Y., speaking on the nature and control of leaf min-

ers of trees and shrubs, said that leaf miners include the immature form of moths, beetles and sawflies. Control measures, he stated, were directed against both the adults and the larvae. He added that many plant species are subject to attack by leaf miners, and he classified these insects according to ease of control as follows: (1) Easiest to control are those that attack deciduous plant species; (2) more difficult to control are those that attack broad-leaved evergreens, and (3) most difficult to control are those that attack narrow-leaved evergreens. Using color slides, he described a number of species of leaf miners and suggested controls as follows:

Birch leaf miner: Reviewing experiments directed toward control, Dr. Matthysse said that a number of insecticides had been tried, including Lindane, Chlordane, nicotine sulphate, Toxaphene, Parathion and others. Malathion at the rate of one pint to 100 gallons of water or one pound of 25 per cent Lindane in 100 gallons of water provides good control, he said. He suggested that Malathion is safe to use and effective even after the miners are in the leaf tunnels.

Elm leaf miner: This insect may cause severe damage to elms, especially exotic species. Dr. Matthysse suggested the use of Malathion for control. DDT might be included in the spray to control elm leaf beetle, he added.

Black locust leaf miner: Chlordane, Lindane, Parathion, Systox, Toxaphene and Malathion were suggested as effective controls.

Holly and boxwood leaf miner: DDT will control this insect, Dr. Matthysse said, but the timing of application must be just right and the insecticide must be directed against the adults. Malathion is recommended for use during midsummer and late summer. Parathion also was suggested, but with the warning that it must be used with extreme caution.

Arborvitae leaf miner: DDT applications made in June provide good control, Dr. Matthysse said; Parathion also was suggested as being effective against this insect.

Some Termite Killers Harm Trees

"Termite - proofing Injuries to Shade Trees and Shrubs" was the subject of an interesting paper presented by Dr. Spencer H. Davis, Jr., Rutgers University, New Brunswick, N. J. Some materials often used to eradicate termites from residences and other buildings are most

Your soil
needs it!

PREMIER

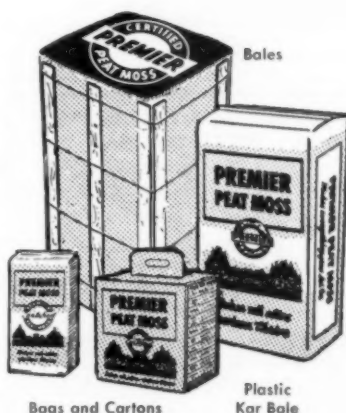
PEAT MOSS

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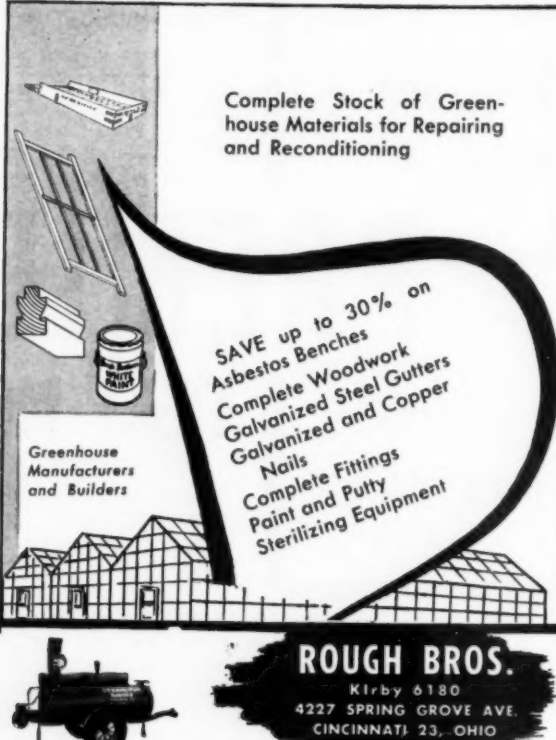
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toxic to trees and shrubs, Dr. Davis said. Some of these materials, he pointed out, release gases, which, especially in compacted or hardpan soils, may travel underground and injure trees standing at a considerable distance from the point of application. Trees with wide-spreading roots that are likely to come in contact with the termite-proofing materials are more likely to be injured than those with shorter, more compact root systems. Certain tree species, he said, seem to be particularly susceptible, including hackberry, London plane tree, apple and oak.

Dr. Davis recommended Chlor-dane for use in termite control operations, stating that this material does not cause damage to plants. He suggested that before termite-proofing materials are applied, a trench should be dug isolating the area to be treated and cutting all tree roots in the process. "This, effectively prevents absorption into the tree of any of the materials used to control the termites. It is similar in principle to the practice of trenching trees infected with oak wilt and certain other diseases to prevent spread of the infection through natural root grafts," he said.

One of the outstanding features of the program was a discussion and film presented by John Nash Ott, Jr., Winnetka, Ill., on "The Place of Time-lapse Photography in Arboriculture." Recounting his early experiences in the field of photography, Mr. Ott said that he began taking time-lapse pictures as a hobby with one small, hand-operated camera, but that it quickly developed into a full-time business with television programs scheduled in a number of cities.

"Normal plant development is an extremely slow process, a process so slow that one cannot detect the changes as they occur," Mr. Ott said, "but through time-lapse photography, the process is speeded up, perhaps several hundred times, and then the changes in structure, coloration and general development are plainly visible. Through time-lapse photography, plant responses to moisture, fertilizer and all other factors that influence growth and development can be faithfully recorded and revealed."

Oil Spray Report Given

A discussion on tree spray oils was presented by Dr. E. H. Smith, New York state agricultural experiment station, Geneva. With reference to applying oil sprays during rainy pe-

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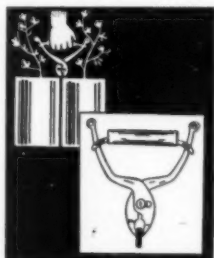


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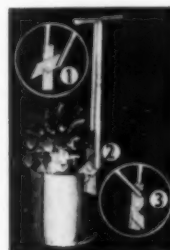
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riods, Dr. Smith said that oil applied when the bark of the tree is wet is still effective provided it has an opportunity to dry before the next rain. Once it dries, he asserted, it will not be washed off the tree.

In tabular form Dr. Smith presented various data concerning oil sprays and their effects on insects, including the following: A deposit of 1.5 milligrams of oil per square inch provides about 96.3 per cent insect control. Relative to oil spray applications in cold and changeable weather, the oil deposit and concentration increase as the temperature falls; at 18 degrees Fahrenheit, the deposit and the concentration are from four to five times greater than at temperatures of 40 to 45 degrees Fahrenheit. A 3 per cent oil spray concentration is sufficient to give about 96 per cent control of insects.

Comparing the insect-killing properties of oil with those of several of the newer insecticides, Dr. Smith said there seemed to be a tendency for many insects to develop resistance



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to the newer materials but not to oil. In general, he advised the use of insecticides that would not cause harm to beneficial insects.

Tree Expert Law Discussed

The idea of the practice of arboriculture being governed by state laws has received considerable comment in recent years, and the licensing law now in effect in New Jersey was reviewed by P. E. Alden, shade tree commission, Kearny, N. J., in his paper, "What the New Jersey License Law Has Accomplished." As Mr. Alden explained, the New Jersey law is a nonrestrictive law; it provides for holding examinations in tree care practices, and those who pass are awarded certificates stating that the holder is a "certified tree expert" and is capable of performing tree work in a satisfactory manner. It is not compulsory that those engaged in tree work take the examination, but those who sponsor the certified tree expert law feel that it gives the trained arborist a professional standing and furnishes him with a recognized means of so labeling himself.

The certified tree expert law was enacted in New Jersey, primarily, Mr. Alden said, to give a better degree of protection to the public from the activities of untrained, incompetent men who were attempting to practice arboriculture. Passage of the law, Mr. Alden said, has resulted in raising the standards of arboricultural work performed and educating the public as to the need of tree work and employing trained and competent men. Since the law was enacted, in 1940, there have been 108 applicants examined under its provisions, of whom 81 passed the examination and subsequently were certified as tree experts, said Mr. Alden.

Using color slides to illustrate and supplement his remarks, H. M. Van Wormer, arborist and tree consultant, Richmond, Va., ably discussed tree-moving practices and problems. Problems encountered in connection with moving large trees, Mr. Van Wormer said, include securing adequate drainage; conducting the transplanting operations near houses and other confined areas; care of the tree involved before and during moving it; obtaining the proper type of equipment; nematode control, and wrapping, watering, fertilizing and other maintenance practices after it has been moved.

Mr. Van Wormer advised wrapping the tree with burlap before digging it for moving; using peat moss,

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straw, peanut shells or other mulch materials after moving, and applying fertilizer by means of holes drilled into the ball about 60 days after transplanting. He stressed the importance of guying the transplanted tree properly and maintaining the guys until the tree becomes established.

Arbor Day Association

A plea for wider observance of Arbor day was made by Harold P. Piser, Flushing, N. Y., in his excellent paper on "The Place and Purpose of a National Arbor Day Association."

"What is needed," he asserted, "is a well-co-ordinated plan, serviced by a central organization, having state headquarters and community chapters in every county, city, town and village, devoted to a complete program to stimulate a new and greater interest in Arbor day and all it signifies. We want to make people truly tree-conscious and conservation-minded; we want to grow trees for the future, to stop waste and destruction, to void vandalism and help prevent forest fires; we want to beat the insect scourge and disease."

All this could be accomplished, he said, through formation of a national Arbor day association, and he urged that action along this line be taken promptly.

Dr. Henry Skinner, of the United States National Arboretum, Washington, D. C., discussing trees for street and lawn planting, advised conference delegates that the trend toward planting small trees around homes is not pushing larger shade trees out of the tree-planting picture.

Pointing out that both large and small trees can be used to advantage according to the conditions in the area to be planted, Dr. Skinner said that small, tailored trees are excellent in certain locations, but, in many areas, particularly in the west, high trees and top shade are needed. "Our summer climate," he continued, "will guarantee use of large shade trees for many years to come."

In conclusion, Dr. Skinner presented a series of color slides of shade trees which, he said, often are suitable for street and lawn plantings. These include the following: Willow oak, recommended as a drought tolerant species; European beech; European linden; English elm, suggested because of its resistance to many diseases; London plane tree; Chinese elm (*Ulmus parvifolia*), of which, Dr. Skinner



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commented, "there are some good individuals among a rather poor species"; sour gum and box elder, with a suggested use of male trees in both cases; red maple; Ohio buckeye; Japanese pagoda tree; trident maple; silver bell; European bird cherry; holly; dogwood, and probably others.

Control of Pest Birds

The time schedule of the program permitted inclusion of a paper which, though not originally scheduled, proved to be extremely interesting. It dealt with the control of pest birds, such as starlings and pigeons, and was presented by Dr. Hubert Frings, of Pennsylvania State University, State College. Dr. Frings explained that his method of pest bird control, developed by Joseph Jumber and himself during a study of the habits of starlings conducted at the university, was based on the fact birds, and probably most other forms of wildlife, have fear or distress calls. He said that during the course of the studies, the distress call of starlings was discovered, put on a sound recorder and broadcast through sound units in a starling-roosting area.

The sound was released intermittently as the birds were coming in to roost for the night, Dr. Frings said, with the result that the starlings were frightened and left the area. The procedure, repeated for several nights, served to free the area of starlings for the rest of the season. Encouraged by these results and believing that, as he phrased it, "biologically significant sound can control the actions of birds and animals," Dr. Frings said he is continuing experiments directed toward the control of other pest bird species and plans to extend his studies to include certain injurious rodents and insects. He emphasized that this is a new type of research study, that only a start has been made in this field and that much remains to be done. "However," he said, "results to date seem promising."

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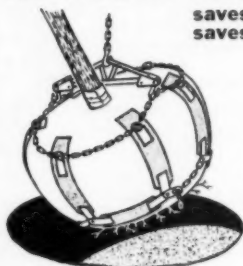
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CALIFORNIA CONVENTION

[Continued from page 8]

tax association after committee investigation to combat personal property taxes. 2. Investigate what other trade organizations are doing regarding "wheel" taxes.

Mr. Christensen then offered a resolution that counties be asked to set aside land solely for agriculture or growing use in order to avoid high real-estate levies should the property be reclassified as developed land.

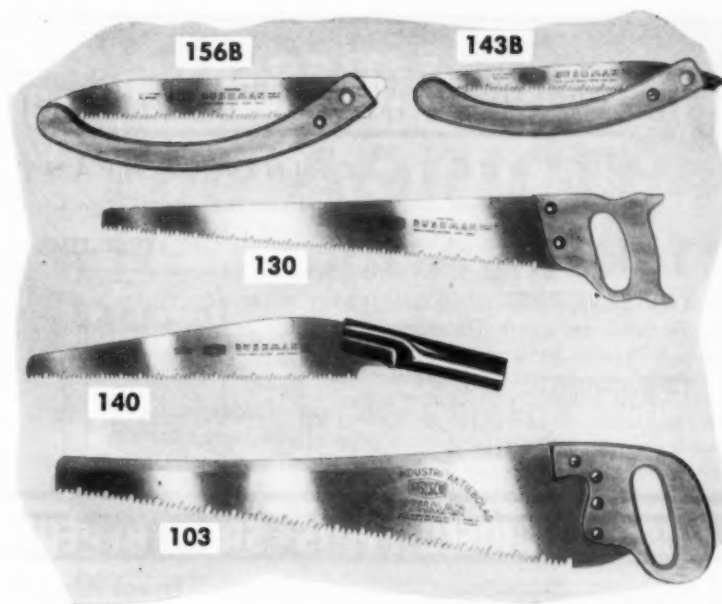
Scholarship Committee Is Active

The scholarship committee, directed by David L. Cunningham, Descanso Distributors, Chino, was particularly active during the past year, as evidenced by the chairman's annual report. Awarding of the C. A. N. annual scholarships to worthy students at California State Polytechnic College, San Dimas and San Luis Obispo, was described by Mr. Cunningham. A complaint regarding the selling of nursery stock by students at the San Luis Obispo campus had been investigated, and the board was informed of the quantity and monetary value of the nursery stock. The total was deemed too inconsequential to consider the matter further.

The board adopted the committee's suggestion that more aid be given to research groups on horticultural problems; approved the appointment of Dr. B. C. Smith, of California State Polytechnic College, as liaison man between the colleges and the association; granted honorary memberships in the C. A. N. to the student scholarship winners; approved selection of future committee members from a smaller area to permit more meetings, and planned sponsorship of an essay contest on the nursery business for college students studying ornamental horticulture—three winners to receive cash prizes, plaques and a trip to the annual state convention.

Jack McDonnell, publicity chairman, and Carl W. Sickler, of the Pacific Advertising staff, told of the increased number of the weekly press releases used in the California newspapers and the interest in the material shown by radio and television stations. Particularly commendation was directed to Hollis Gray, Cottage Nursery Co., Vallejo, for his weekly "Gardener's Check List," which accompanies all press releases. A radio was later presented to Mr. Gray in appreciation of his efforts.

A revision in the publicity program was requested by the southern California chapters in an effort to

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Shipping tags, color broadsides, catalogs, price lists, order blanks, order books, stock records, gummed labels, blotters, salesbooks, distinctive stationery.

Letterpress and offset printing. Write for free samples and prices.
THE TINGLE PRINTING CO.
SINCE 1907 PITTSVILLE, MD.

put the association material into such influential southland newspapers as the Los Angeles Times, the Los Angeles Examiner and the San Diego Union. The new southern division of the state publicity committee will formulate the campaign and report later in the year.

An appeal for a special committee to study the curriculum of California State Polytechnic College and suggest improvements was voiced by Howard Brown, head of the ornamental horticulture department of the school. The board directed the incoming president to appoint a committee for this purpose.

Licensing Is Discussed

Wray Hiltabrand, chief of the California bureau of nursery service, told of the nurseries' approval of the new method of printing the license register booklet. In a discussion of licenses granted, he stated that the previous total of around 6,000 had remained virtually the same, with only a slight gain. There have been two slight changes in the code—(1) political subdivisions, such as cities and counties, do not need licenses and (2), any firm established as a business in the state, but conducting interstate sales, must be licensed. More pinto inspection tags are being issued, with 507 now in force in California.

A number of other matters were brought to the attention of the board of directors. Among these were a plan for the California association annually to present an award to any university or college that does outstanding research—a project which will be set up by a committee appointed by the incoming president. Also brought to the board's attention was a proposal to change the association's decals, a matter tabled for further study.

Other action taken by the board included (1) approval of plans to install a display at the state capitol, at Sacramento, in space allotted to the industry for a six months' period; (2) rejection of the annual request for an increase in chapter refunds; (3) referral to individual chapters of the association of a suggestion to award honorary memberships to men outside the industry, and (4) approval of plans to promulgate a tree-labeling program in the public parks, the plans to be effected by the education committee.

The board of directors then considered a proposal by the Centinela chapter to appoint a committee to study a plan for the creation of standards in the granting of nursery

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AGRICO FOR LAWNS, TREES & SHRUBS. Contains all the right elements—both organic* and inorganic—for correct lawn feeding. Convenient 50, 25, 10, 5-lb. bags.

AGRICO FOR GARDENS. This specially-formulated garden fertilizer means flowers of greater beauty; vegetables richer in flavor, packed with healthful vitamins. Convenient 50, 25, 10, 5-lb. bags.

AGRICO FOR BROADLEAF EVERGREENS. For the exacting requirements of rhododendrons, andromedas, azaleas and other acid-loving plants. Builds soil acidity, feeds plants correctly. In 50, 25, 10, 5-lb. bags.

AGRICO ROSE FOOD. The precise combination of both organic* and inorganic plant foods to bring out the best in your roses. Use under bulbs, too—contains potash, which bone meal does not have. In 50, 25, 10, 5-lb. bags.

*Organic derived from AGRINITE, the 100% organic plant food.

"The AGRICO 4" and AGRINITE

Agrico products are bringing outstanding results in nursery use—and liberal profits to nurserymen who offer them to customers. Cash in on America's most complete plant food line—use

Agrico for related selling (when you sell nursery stock, sell the right Agrico with it). Tie in with Agrico advertising—use Agrico ad helps. Order Agrico direct from nearest A. A. C. office, or write us.

AGRINITE is a better (over 8% nitrogen) 100% organic plant food. High-grade nitrogenous tankage, not an animal manure or sewage by-product. Clean, odorless, doesn't burn. For all-season use. In 80, 50, 25-lb. bags.

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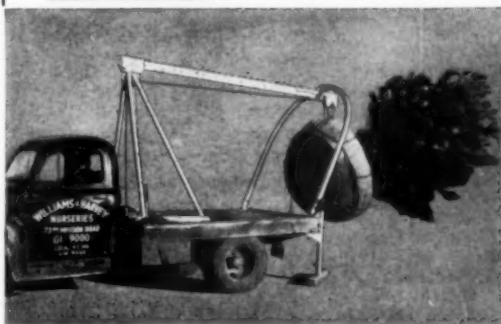
licenses. The proposal was passed, although Wray Hiltabrand warned the group that the state legislature has always been adverse to the consideration of discriminatory legislation.

A few final matters were then considered briefly. Sponsorship of the nursery practice contest, which has been held in the past in the Los Angeles city school system, was placed in the hands of the San Fernando, Sunset and Los Angeles chapters. Acting upon a request from Bert Kallman, Kallman's Garden Nursery, Santa Barbara, the board set up qualifications for an annual award to be presented for outstanding achievement in horticulture. A motion to reduce the associate membership dues from \$50 to \$30 lost by a majority vote.

President Wilson Opens Convention

General convention sessions began Tuesday morning, with an address by President James H. Wilson, who pointed out highlights of the past year's activities—the tremendous strides during the past few months in the association's publicity program, the participation of all chapters in the group insurance program, the active and close cooperation between the research committee and

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This New,
Improved
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Mover

- New Lighter Weight
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This perfected new tree mover fits any standard truck. Ready now.

For specifications write at once.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, **\$1,575.00** F. O. B. Kansas City, Mo.

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Lasts Longer!

Detorf is the Genuine "Sphagnum" Peat from German bogs. Formed many centuries ago from superior broad-leaved moss, Detorf is highly resistant to decomposition. Millions of spongelike cells absorb water at the rate of 15 to 20 times their own weight. Detorf breaks down slowly with gradual release of "humus acid" to keep soil loose and porous and helps to release plant foods gradually.

Goes Farther!

Detorf Expands and Absorbs to condition more soil and trap more moisture. It is 95 per cent organic matter in a proper state of decomposition to help maintain constant soil tilth. Detorf is packed in modern plants to ship thousands of miles safely. Bales are tightly compressed to contain maximum material per bale, and are completely wrapped in burlap and securely bound.

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Detorf sells on sight because customers can see that it is uniform in texture, rich brown in color, light and absorbent. Bales available in sizes for large or small users. Plastic bags available for storm packs.

Write, Wire or Phone for More Profit

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the agriculture department of the University of California, the realistic approach to tax problems evidenced by the tax committee, the expanded educational program and the establishment of the association's 16th chapter, the Kern county chapter, at Bakersfield.

President Wilson particularly commended Executive Secretary Elmer Merz for his fine work, which, he said, made Mr. Merz "the hub of the association." He urged that some future consideration be given to the selection of an understudy for Mr. Merz, foreseeing the need of an assistant, as the association business increases.

"I sincerely wish to thank the state officers, directors and chapter presidents for their cooperation, their confidence and their encouragement during my term of office," he concluded.

Cites History

The next speaker was Mr. Merz, who began by briefly tracing the history of the association from its inception 43 years ago. "In 1914, when the convention was held at San Diego for the first time, we had 70 members. Now, 40 years later, we can proudly boast 920 and are nearing our goal of 1,000.

"Our association has grown with the industry itself," he pointed out, "for back in 1899 the value of nursery stock grown and sold in California was placed by the census report at \$558,329; it is expected that reports for the year 1954 will come very close to \$100,000,000. I need not tell you that this volume indicates that the nursery business in California plays an important part in the general economy of the state."

Listing 12 objectives of the association set down at the 1953 convention, he reported progress in all. These were the cultivation of acquaintanceships; the fostering and promoting of a greater use of nursery products; the improvement and standardization of nursery products; the advancement of lawful and fair trade practices, customs and usages; cooperation with all allied interests; the compilation and dissemination to members of scientific information; the study of business methods and standards for recommendation to and use by the members; the gathering, analyzing and dissemination of information of general interest and the securing and presenting of the views of the members to the public, the governmental agencies and other organizations; cooperation with governmental agencies in construct-

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—gives you uniform distribution and the most efficient use of water on growing plant areas at lowest possible cost. With Skinner your plants can have "RAIN" at the mere turn of a valve. A nozzle for every type of application.

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Pioneer and leader in irrigation for nearly half a century

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The Nurserymen's favorite
"Serving Nurserymen Since 1904"

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OUR NEW PLASTIC LABEL
Please write for prices and samples.
OHIO NURSERY LABEL CO.
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NEW CYPRESS PLANTBANDS

- ★ WON'T STEAL YOUR SOIL NITROGEN.
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NEW YORKER BAG & BURLAP CO.
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Lerio NURSERICANS*

Nursericans are specifically designed for the job of growing plants in containers.

Featuring:

- ★ The "E-Z Out" removable bottom
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Nursericans really do the job. Best yet, you can get Nursericans in two sizes: 6" and 8" (called one and two gallon sizes by the trade). Both are beautiful containers with a finish of baked-on green paint.

Plant on right: in 8" Nurserican
Ilex Crenata Rotundifolia
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Plant on left: in 6" Nurserican
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ing policies on legislative and administrative matters; the promotion of the exchange and sale of nursery stock; the exhibition of plants, fruits, flowers or other articles produced by or used in the industry, and the engaging in any lawful activities to enhance the efficient and economic progress of the industry and apprise the public of its scope and character.

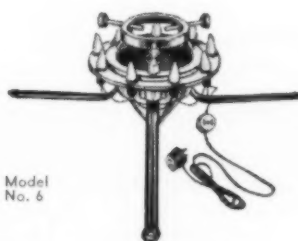
"During the past year we have been called into conferences, as spokesman for the industry, by countless state agencies, legislative representatives and agricultural commissioners, and we have been asked to join with state and local chambers of commerce to support many types of activities of interest to our industry," he continued.

"How about business? You cannot look at the continued growth of population here in California without feeling most optimistic about the future of the nursery business," he stated. "Building continues at a greatly expanded pace with an increase in population of over 350,000 every year, and each new homeowner is a prospect for our products.

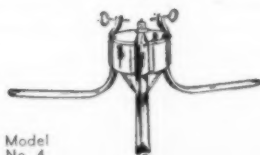
"I cannot help feeling that business is going to be very good, but a word of warning must be added to this optimistic outlook. Faced with



Model
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30 Million Christmas Trees sold every year!

Everyone needs a tree holder. Get your share of this business with the HANDY holders — six models to choose from.

User can set up a tree in less than a minute.

Holders are well-balanced, simple, strong construction. Will last a lifetime.

Ball-shaped feet eliminate any possibility of marring highly polished floors.

Finished in bright nickel, lustre chrome, red and green high bake enamel.

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Specially designed for arborists and other professional users. A complete line of 7 patterns covering all requirements up to chain saw work.

Blades — made by Sandvik of famous Swedish charcoal steel — have fast-cutting, large, deep teeth with heavy set to prevent binding. Handles are of laminated hardwood, streamlined and free from horns and projections.

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5 patterns in various sizes, including the new Seymour Smith TIFFANY PRUNER.

TREE PRUNERS

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No. 11
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No. 11 "Telephone" tree pruner head, with 1" capacity and No. 12 with 1 1/2" capacity are the finest available. Also rugged poles of selected spruce with seamless aluminum joints.



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No. 20 saw head has 16" needle point teeth, is adjustable to 3 positions. Uses standard poles.

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No. 90 Professional Double-Cut

For generations Seymour Smith has been supplier of the finest hand pruners for professional use. Made in 8 models for all requirements.

Most dealers carry Seymour Smith pruning equipment. Write us for descriptive literature.

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probably the greatest market existing anywhere in the United States for nursery stock and the opportunity for increased sales for every firm that conducts an aggressive selling campaign, the industry at the same time is confronted with the threat of decreased profits unless the importance of and maintenance of a profitable price structure is recognized. Costs continue to rise. The tax structure continues to take more from us. Today more than ever before we must work together, for we are all in business for a common objective. Let us also recognize our obligation to the public to supply the finest products that the industry can produce at a price within reach, but at a price at which we can make an honest profit," he concluded.

Appearing on the program after Mr. Merz, Jack McDonnell and Carl Sickler reviewed the progress of the publicity program since its beginning 18 months ago. The outlets receiving the material have doubled in that time, Mr. Sickler stated.

J. B. Baker, Jr., Baker Bros. Nursery, Fort Worth, Tex., president of the American Association of Nurserymen, was the next speaker to address the large assembly. Referring to the A. A. N. as "the watchdog of the industry," Mr. Baker turned to some of the specific accomplishments of the national group to illustrate its protection of nurserymen's interests. He cited its instrumentality in curtailing the importation of plants from foreign countries, thus reducing spread of plant diseases; its promotion of a new plant patent law which permits patents for chance seedlings; its cooperation in legal cases of importance to the industry, and its active engagement in the fair trade practice program.

Past Presidents Honored

Honored guests at the Tuesday noon luncheon were 11 past presidents of the C. A. N. These were Herman Sandkuhle, Bert Kallman, Clyde Stocking, John S. Armstrong, George C. Roeding, Jr., Jack McDonnell, Syd Whitehorn, Tom Sand, Gene Fowler, Ray Hartman and J. Awdry Armstrong. Jack Evans, after participating in the Monday sessions of the board, was not able to be present at the convention.

Keynote speaker at the luncheon was George H. Klump, supervisor of investments for the Security-First National Bank of Los Angeles, who addressed the assembly on "Future Without Fear."

"Today is never so bad as the to-



LAND LEVELER LEAVES A TRAIL OF SATISFACTION

For a modest investment, this Gledhill Land Leveler pays big dividends. Attaches readily to any Ford or Ferguson-type tractor with 3-point lift. For nurserymen and landscape gardeners, it's the answer.

Send for details:

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HYPONEX PLANT FOOD

Grows Better Plants Faster
in SOIL, SAND or WATER

SELL HYPONEX for extra profit. Nationally advertised. Millions are now buying it for house plants, garden flowers, vegetables, lawn...

USE HYPONEX for top dressing, seedlings, cuttings, transplanting and general feeding of plants. Produces sturdier stock in less time.

Retail Price	Dealer & Grower Cost
1-oz. pkt. 10c—72 to cs. wt. 7 lbs. . . .	\$ 4.80 case
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7-oz. can 50c—24 to cs. wt. 14 lbs. . . .	\$ 8.00 case
1-lb. can \$ 1—12 to cs. wt. 16 lbs. . . .	\$ 8.00 case
10-lb. drm. \$ 8—individually packed . . .	\$ 5.33 each
25-lb. drm. \$15—individually packed . . .	\$10.00 each
50-lb. drm. \$25—individually packed . . .	\$16.67 each
100-lb. drm. \$40—individually packed . . .	\$26.67 each

1 lb. makes 100 gallons liquid plant food.

If Your Jobber Cannot Supply You, Order Direct.

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Pronouncing Dictionary

of Plant Names and Botanical Terms

64 pages, 3000 names, 25c per copy

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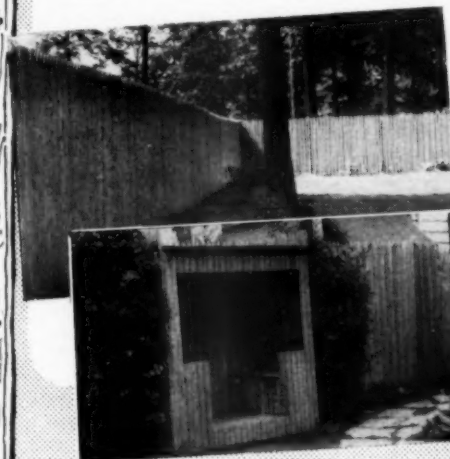
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... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K. D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



Also, Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.

Gates, Lanterns, Rustic Tables and Settees.

Shipped from Toledo or our W. Va. Yards.

WOOD PRODUCTS CO., Toledo, Ohio

morrow you expected yesterday," he told the group, "and I have no confidence in business executives who worry about tomorrow. This country has always been able to solve its problems, for it has the manpower, the inspiration and the tools.

"The electric power industry, always an index to the prosperity of the nation, expects nearly a 25 per cent increase in business before 1960. The nursery industry should make sure to get its share," he urged.

Among the factors assuring a good economic future for the nation, according to Mr. Klump, is population growth, which creates more demand for goods. The number of persons in the dependent ages—under 18 years and over 65 years—is increasing. Decentralization of the population is another factor assuring prosperity. Decentralization necessitates new homes and continued building. The tremendous scope of industrial research, which creates new products and increased purchasing; the trend toward automatic devices that will raise the standard of living; the tremendous potential of atomic energy in everyday uses and the income increase that places 70 per cent of the national income in the \$4,000 to \$10,000 salary bracket

Now — Fumigate your soil this amazing new way

With Fumi-Soil Capsules not costly equipment!

THE FUMI-SOIL WAY IS SIMPLE AS A-B-C



"Field growers" have used bulk Ethylene Dibromide in solution with naphtha for years for in-the-soil control of borers, nematodes, ants, beetle larvae, wire worms, (and even moles), which weaken plants and cut blooms by preying on roots. Now, with FUMI-SOIL capsules, containing pure Ethylene Dibromide, this proved soil fumigant is safe and practical for greenhouse and nursery use—gives positive soil fumigation without

costly equipment, without harm to established plants—without muss or fuss. Recommended by state agricultural colleges and leading authorities. Write today for literature and trial size package.

Package Retail Prices:

24—\$1.00 100—\$2.75 200—\$4.50

Discount to Dealers for resale. Commercial quantity prices on request.

NOTE: The U. S. Agriculture Department has approved Ethylene Dibromide for destroying Japanese Beetle grubs in balled nursery stock, when under quarantine regulations.

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High Analysis KAP-OGANIC

**THIS PURE ACTIVATED SLUDGE
CONTAINS MORE PLANT FOOD!**

KAP-OGANIC contains 5 to 5½% organic nitrogen and 5 to 6½% available phosphoric acid. Maximum, safe, nonburning plant food. Uniform, high analysis, economically priced. Bags of 25, 50, 80 lbs. Write for complete price list, full details.

Use Kapco Soluble Fertilizers Faster Results! Lower Costs!

KAPCO solubles assure complete, safe, liquid feeding of all crops, ornamentals. Save shipping costs of bulk fertilizers! Write for full selections of analyses; here is a partial listing:

15-30-15, 20-20-20 and 25-0-25 . . . priced 22c to 17c lb. in quantity orders.



Look for this Label **KAPCO**
McKEESPORT, PA.
Division of Summets Fertilizer Co. Inc.

COLORED - TREATED BURLAP NURSERY SQUARES

YES—Now available, a burlap square with sales appeal. Both treated and dyed in various colors for that added boost in sales; yet priced so right that you'll agree that it's time we gave a tree a modern wrapper!

Also
BURLAP TWINES
Imported Dutch—Domestic
MENNEPOTS—PLANT LABELS
WILT-PRUF—EROSION NETTING
GERMAN PRUNING KNIVES
AND SHEARS

AMERICAN-DUTCH TRADING CO., INC.
P.O. Box 177, CRANSTON, R. I.

were other cited assurances of prosperity.

After the luncheon, the members split up into groups to discuss problems of the retailer, the wholesaler and the landscape man. J. Awdry Armstrong moderated the first group; Ray Hartman, assisted by Harry E. Rosedale, Monrovia Nursery Co., Monrovia; Virgil E. Cripe, Del Rancho Fortuna, McFarland, and F. C. Tomlinson, Select Nurseries, Whittier, met with the second group, and Eugene Armstrong, Capital Nursery Co., Sacramento, directed the landscape meeting. Each chairman made a report to the assembly on Thursday.

Tuesday evening found the members gathered in the Circus room to witness an amateur program, featuring acts by members of the audience. The master of ceremonies was Haig Arakelian, San Diego Fertilizer Co., San Diego.

Play Day

Wednesday, September 8, was officially designated as play day. Golfers assembled early Wednesday morning at the La Jolla Country Club for the annual tournament, while other conventioners attended the world-famed San Diego zoo, swam, fished or rested. All other activities were halted during the afternoon so that nurserymen could watch or take part in play day's main event, the annual baseball game between the north and the south, which was won by southern members of the association with a score of 18 to 9.

C. A. N. members returned to business matters Thursday, with a report of the retail group meeting by J. Awdry Armstrong as one of the lead-off events of the day. According to Mr. Armstrong, the retail nurserymen, in their private sessions on Tuesday, had discussed mainly the subjects of prices, display, closing days and personnel. Conclusions of the retail nurserymen regarding prices were that more careful attention should be given to costs, and that, generally, retail prices should be two and one-half to three times cost. As to display, the importance of the arrangement of material, the reduction of the sales area for efficiency and a survey of attractive packaging methods were the major subjects of discussion. Retail nurseryman saw a trend toward closing one day each week. It was stated that in some areas, nursery firms are closing on Sundays from June to December.

Wholesalers had discussed short-



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This well-known Rex Peat Moss is now available in new, chemically treated burlap. It's called Kulkonized Burlap—will not rot even when stored in damp areas over long periods of time. Strong, durable, Kulkonized Burlap Bales eliminate waste . . . permit faster work. As a result, you can enjoy the savings on quantity purchases without danger of loss or inconvenience in handling. Write today for descriptive literature and prices.

Imported Nurserymen's Supplies
Rex Reed Mats—Peat Moss Seedlings
Pots—Wilt-Pruf—Other Specialties.

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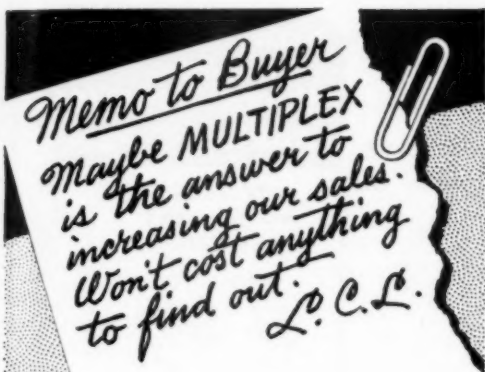
CAW-CAW Fuse Rope
Stop Bird and Animal
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Write for circular.

One of the World's Largest
Stocks of Twines and Rope

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Nurserymen and florists who have installed a Multiplex have reported increased sales as a result. These swinging-panel display fixtures provide full display of colored illustrations and catalog information you have on blooming plants and decorative shrubs. This attractive literature can be quickly arranged on the panels, and it gives customers full information on color of blooms and size of plants without taking your valuable time. They are real silent salesmen and bring added sales that quickly pay for the installation.

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Coupon at the right is for your convenience. It will bring you complete catalog on Multiplex Display Fixtures. They are available in various sizes to meet all requirements—Pedestal type as illustrated, as well as models for counters and walls. Send for FREE copy today and find out how MULTIPLEX can help you to increased sales.



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DISPLAY FIXTURE CO.

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St. Louis 1, Missouri

Please send your Display Equipment Catalog

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COMPANY _____

ADDRESS _____

CITY AND STATE _____

ages of particular types of plant materials, Chairman Hartman reported. Most conifers, except thujas, were said to be in short supply, as were container-grown evergreen trees. Adequate stocks of fruit trees, deciduous shade trees and roses were on hand. Much time was spent on a discussion of the disparity of credit terms, discounts and other conditions of sale, which create difficulties in the collection of accounts. Northern and southern committees were appointed to investigate these disparities.

The widely increased acceptance of dichondra as a lawn in southern and central California was noted by Gene Armstrong in reporting the landscape group's meeting. It is grown best from seeds planted in the warmer months in sunny, well-drained locations. The newer Bermuda grasses have not proved satisfactory, it was stated. Some time was spent on a discussion of job bids, the cost of planting various items and the increased utilization of power tools in landscape work. The use of plastic pipe in sprinkler systems is on the increase, with excellent results noted.

Two reports closed the morning session. One, by Howard Quadland, outlined sales promotional objectives

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This Pencil-Type

POCKET MICROSCOPE

which has been advertised in this magazine for several months

IS NO TOY

but a highly valuable instrument, many times more powerful than magnifiers or reading glasses, 5-in. metal barrel; fine clear lenses; ready for instant use. Needed by horticulturists; engineers; doctors; metalworkers; rock hounds; naturalists; collectors of stamps, coins, gems, insects and minerals, and many others. BUY ONE! TRY ONE! Send it back if you don't like it.

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Solve your Christmas giving right now. Do not wait for the last-minute rush. Additional discounts in lots of 10 or over. Imprinted in lots of 100 or over.

20 power, \$3.50 (3 for \$9.00); 40 power, \$4.50 (3 for \$12.00)

One of each, \$7.50

Postpaid. No C.O.D., please. Money-back guarantee.

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3% tax in Ohio.

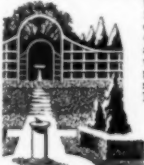
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EARN HIGHER PAY

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for the nurserymen to widen their markets. Discussing the "Plant America" program, he told of many ways to increase business by pointing out what nursery products will do for the customer. As to future prospects, quoting government economic figures Mr. Quadland predicted a 25 per cent market expansion in six years and a 10 per cent increase in population during the same period.

The final morning address, entitled "The Position of the Nursery Business in Agriculture," was by Charles Dick, chief of the division of plant industry of the California state department of agriculture. Mr. Dick told the nurserymen that they have a responsibility to supply the farmer with the finest nursery stock it is possible to grow, for the success or failure of many a farmer may be caused by the quality of the stock he buys. He urged nurserymen to watch that pests are not passed on to other areas with the delivery of plant material. He suggested two goals for nurserymen to seek—first, cleanup of pests to the point of eliminating destination inspection; second, the development of virus-free budwood.

Thursday Luncheon

Members of the convention committee from the host San Diego chapter were introduced at the Thursday luncheon by General Chairman Paul Kleinsorge. The luncheon speaker was Cletus Gardner, director of recreation, San Diego county, who addressed the guests on the correct use of words in a delightful talk on syntax. "Be able to express yourself with the right word," he said. "Learn five new words each day and understand them; learn new phrases and synonyms; drop hackneyed phrases. Learn to convey your thoughts to your listeners regardless of the size of the audience."

Final committee reports were given in the early afternoon. Jim Eggers, of the highway beautification committee, advised the assembly that his group has been investigating the work of other states on similar projects. The highway beautification committee has also been consulting with chamber of commerce groups, who have done much work on highway planting.

The survey on general nursery practices, conducted by Jack Schneider, was not complete enough to offer any conclusions; so this survey will be continued until the next convention.

Harold Prickett, Prickett's Valley View Nursery, Santa Rosa, chairman

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Size 2	Top . . . 7 ins. Bottom . . . 5 1/2 ins. High . . . 9 ins.
Weight per 100	
Regular 24 lbs., Heavy 55	
Regular Weight Price	
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Heavy Weight Price	
100..\$5.75 1000..\$55.00	

Size 3	Top . . . 8 1/2 ins. Bottom . . . 6 1/2 ins. High . . . 9 ins.
Weight per 100	
Regular 30 lbs., Heavy 70	
Regular Weight Price	
100..\$5.00 1000..\$47.50	
Heavy Weight Price	
100..\$6.25 1000..\$60.00	

Size 4	Top . . . 8 1/2 ins. Bottom . . . 7 1/2 ins. High . . . 9 ins.
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of the safety committee, advised the assembly that a series of magazine articles and posters on safety practices will be available in a short time and that a safety engineer, secured through insurance representative Pressley Neville Jones, will give talks to chapters on safety.

F. C. Tomlinson, chairman of the insurance committee, then introduced Pressley Jones, who talked on the status of the group insurance program. He stated that 352 firms are using the hospital-medical insurance plan and that 8,000 persons in the industry are covered by this insurance. Claims of \$135,000 were paid the past year. The new life insurance plan now guards 927 lives in 102 firms, with an insurance coverage of \$2,000,000. Though the welfare plan has been broadened in recent months, there has been no increase in the premium rate since the original plan was offered to the industry. A pension plan is now being studied by the association's board of directors and the insurance companies.

President's Banquet

As each lady entered the ballroom to attend the president's banquet Thursday night, she was handed a large tuberous begonia for a corsage. The men, too, were not forgotten, for there was a rose for each to wear as a boutonniere.

In the absence of Jack Evans, J.

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Awdry Armstrong took the gavel as master of ceremonies. Seated at the head table along with Mr. Armstrong were Mr. and Mrs. Syd Whitehorn; Howard Quadland; Mr. and Mrs. Don Perry; Mr. and Mrs. James Wilson; Mr. and Mrs. David Stump; Mr. and Mrs. J. B. Baker, Jr.; Mr. and Mrs. Fred Fick; Mr. and Mrs. Paul Kleinsorge; Mr. and Mrs. Elmer Merz, and F. R. Kilner, editor and publisher of the American Nurseryman, and Mrs. Kilner.

Before awarding the trophies, Mr. Armstrong commended George Otto, George F. Otto & Son, San Diego, for the floral arrangements and Roy F. Wilcox & Co., Montebello, for the large foliage plants decorating the stage. Presentation of the play day awards followed, with Norman Springer, Bandini Fertilizer Co., Los Angeles, acting as master of ceremonies.

Achievement Award to Payne

The sixth winner of the annual award for outstanding achievement in horticulture was Theodore Payne, pioneer nurseryman of the Los Angeles area. Because of the illness of his wife, Mr. Payne was not present to receive the trophy.

A portrait and biographical sketch of Mr. Payne appear on page 9 of this issue. His selection as the award winner was received with much enthusiasm by the audience.

A trophy was received by Paul von Kempf, Pacific Nurseries, Colma, for having caught the most fish. A statuette was then presented to Mrs. John A. Armstrong, Jr., for hauling in the smallest fish in the annual fishing derby. Winner of the Pressley Neville Jones trophy for the top golf honor went again to Jack McDonnell.

The huge trophy donated several years ago by Neil A. MacLean Co., San Francisco, for the winning team in the annual north-south ball game was handed over to the southern manager, Jim Gibbs, by the northern leader, Ray Hartman, with appropriate ceremonies.

At the conclusion of the awards, outgoing President James H. Wilson presented the gavel to the newly elected leader, David S. Stump, who in turn handed Mr. Wilson a pair of binoculars, a gift from the association in appreciation of his efforts.

The new president began his acceptance speech by commenting on the sincerity of the past president in the conduct of his responsibilities. He then assured the conventioners of his own best efforts in the office of president to make the association stronger than ever before.



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